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Patents Nos. 2,309,620 to 2,310,198

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February 2, 1943

Trade-Marks	142	—No. 399,786 to No. 399,927, inclusive.
T. M. Renewals	75	
Reissues	4	—No. 22,259 to No. 22,262, inclusive.
Patents	579	—No. 2,309,620 to No. 2,310,198, inclusive.
Designs	52	—No. 134,923 to No. 134,974, inclusive.
Total	852	

Drawings

Rule 38

38. When there are drawings, the description will refer to the different views by figures and to the different parts by letters or numerals (preferably the latter).

Rule 52—Extract

(*f*) The different views should be consecutively numbered. Letters and figures of reference must be carefully formed. They should, if possible, measure at least one-eighth of an inch in height, so that they may bear reduction to one twenty-fourth of an inch; and they may be much larger when there is sufficient room. They must be so placed in the closed and complex parts of drawings as not to interfere with a thorough comprehension of the same, and therefore should rarely cross or mingle with the lines. When necessarily grouped around a certain part, they should be placed at a little distance, where there is available space, and connected by short lines with the parts to which they refer and by short broken lines when the number or letters refer to parts shown in dotted lines. They should not be placed upon shaded surfaces, and when it is difficult to avoid this, a blank space must be left in the shading where the letter occurs, so that it shall appear perfectly distinct and separate from the work. If the same part of an invention appears in more than one view of the drawing it must always be represented by the same character, and the same character must never be used to designate different parts.

It is suggested that numerals or letters be used without exponents.

NOTICE

Board of Appeals—Decisions—Time for Response

U. S. Patent Office, *Washington, January 28, 1935.*

There appears to be some confusion among attorneys and applicants as to the time within which action must be taken in applications following a decision of the Board of Appeals.

The decision of the Board of Appeals is "an action" in the application, and, in order to save the application from abandonment, amendment must be filed within six months from the date of that decision unless an appeal has been taken to the Court of Customs and Patent Appeals or review of the decision sought by a bill in equity under section 4915.

The Examiner will not notify the applicant of the decision of the Board of Appeals.

CONWAY P. COE,
Commissioner.

Important Information

In ordering manuscript copies much time will be saved if the order states specifically what is desired, viz:

Application as originally filed. (Petition, specification, oath, and drawings, as received.) Application as amended. (Petition, specification, oath, and drawings with amendments entered.)

Application as allowed. (Petition, specification, oath, and drawings as passed by the Examiner for issue.)

Original application. (Facsimile petition, specification, oath, and drawings at present time.)

Specification as originally filed. (As received in Office.)

Specification as amended. (With amendments entered.)

Specification as allowed. (As passed by the Examiner for issue.)

Original specification. (Facsimile at present time.)

File-wrapper. (File-wrapper only.)

File-wrapper and contents. (File-wrapper, contents of record, including photoprints of any tracings or of prints within file-wrapper. In patented cases, printed copy of the specification and drawings of the patent is furnished.)

File-wrapper contents, and drawings. (File-wrapper and all of the contents of record, including photoprints of any tracings, exhibits, or prints within the file-wrapper. In pending cases, photoprints of the pending drawings only, omitting any canceled. If patented, copy of the specification and drawings of the patent being furnished, photoprints are not made of the original drawings unless specially ordered. If canceled drawings are wanted, they must also be specially ordered.)

Assignment. (Give the liber and page of the record as well as the name of the inventor.)

Printed publications in possession of the Office. (Give title and date of publication, also page and exact portion to be copied.)

Orders for copies of any other records not mentioned above must state specifically the exact paper to be copied.

Examiners' Letters and Amendments

Examiners are directed to recite in each letter in an application the date of the action by the applicant to which it is a reply, and applicants are requested to indicate in their actions on an application the date of the last Office letter.

Conditions of Applications Under Examination at Close of Business January 16, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 41,398; Trade-Mark Division, 875. Oldest new case, Feb. 9, 1942; oldest amended, Feb. 2, 1943.)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Aug. 1	Aug. 31	421
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Aug. 4	Aug. 8	301
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Mar. 9	Mar. 13	1014
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	July 16	July 22	407
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps	June 5	May 28	549
6. GENIESSE, E. W., Carbon Chemistry (part)	Apr. 7	Apr. 29	1093
7. JARBOE, C. G., Optics, Photography	May 19	May 11	1063
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	June 29	June 25	702
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	July 6	July 11	680
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Sept. 1	Aug. 29	357
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	July 21	July 17	326
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	June 12	June 12	670
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Sept. 12	Aug. 31	414
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	June 13	June 12	529
16. SPENCER, C. J., Telegraphy; Telephony	June 8	June 5	699
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Mar. 28	Mar. 24	719
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	May 27	May 11	622
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Apr. 26	Apr. 23	684
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	June 9	Apr. 22	449
21. THOMPSON, T. J., Textiles	July 27	Sept. 17	339
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	Apr. 15	Apr. 15	1701
23. BARROWS, B., Cash Registers; Calculators (part)	Aug. 6	June 22	118
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Aug. 10	Aug. 11	670
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	May 14	May 27	513
26. YOUNG, R. R., Electricity—Generation and Motive Power	June 22	June 5	457
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	June 1	May 18	622
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	Apr. 20	Apr. 11	512
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Aug. 10	Aug. 4	371
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Oct. 7	Sept. 21	355
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	July 27	July 25	1332
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	July 15	July 22	693
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Aug. 31	Aug. 27	523
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	July 30	Aug. 5	327
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	June 24	June 15	778
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	May 21	June 15	473
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Sept. 1	Sept. 19	575
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	July 3	July 11	665
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Oct. 23	Aug. 26	274
40. DRUMMOND, E. J., Receptacles	July 9	July 20	578
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	July 4	July 7	459
42. MARANS, H., Electric Signaling	July 18	July 20	386
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	Mar. 3	Mar. 3	1023
44. HARVEY, L. P., Refrigeration	June 5	June 13	360
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	July 20	July 22	720
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	May 5	May 5	513
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	June 23	June 30	981
48. ROEPKE, O. B., Electricity, General Applications; Igniters	Mar. 4	Mar. 6	766
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	July 22	July 2	542
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	June 16	June 19	1531
51. BACKUS, C. D., Radiant Energy	July 7	July 6	859
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Apr. 28	May 2	592
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Sept. 7	July 27	206
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	June 22	June 26	449
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	May 15	May 10	622
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	June 4	May 30	925
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	July 22	Aug. 6	328
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Sept. 17	Sept. 28	449
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	Feb. 9	Feb. 2	1379
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	June 4	June 4	416
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	June 15	June 8	666
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	July 27	Aug. 25	396
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	Apr. 22	Apr. 16	1151
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	July 7	July 6	1233
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	June 17	June 18	587
Trade Marks: RICHMOND, F. A.	Dec. 1	Nov. 16	875
Designs: KALUPY, H. H.	Dec. 16	Dec. 31	284

DECISIONS IN PATENT AND TRADE-MARK CASES

Supreme Court of the United States

SOLA ELECTRIC COMPANY
v.
JEFFERSON ELECTRIC COMPANY

No. 45. Decided December 7, 1942

1. PATENTS—CERTIORARI.
The question whether a patent licensee, by virtue of his license agreement, is estopped to challenge a price-fixing clause in the agreement by showing that the patent is invalid, and that the price restriction is accordingly unlawful because not protected by the patent monopoly, being of importance to the administration of the patent laws and the Sherman Anti-Trust Act, certiorari was granted.

2. SAME—SHERMAN ANTI-TRUST ACT—PRICE-FIXING.
"Agreements fixing the competitive sales price of articles moving interstate, not within the protection of a patent, are unlawful because prohibited by the Sherman Act."

3. FEDERAL STATUTE AND POLICY PARAMOUNT.
"When a federal statute condemns an act as unlawful the extent and nature of the legal consequences of the condemnation, though left by the statute to judicial determination, are nevertheless federal questions, the answers to which are to be derived from the statute and the federal policy which it has adopted. To the federal statute and policy, conflicting state law and policy must yield. Constitution, Art. VI, cl. 2; *Awotin* v. *Atlas Exchange Bank*, 295 U. S. 209; *Dietrick* v. *Greaney*, 309 U. S. 190, 200–01."

4. PATENTS—ESTOPPEL AGAINST LICENSEE.
A licensee under a patent may assert the illegality of a price-fixing clause in the license agreement and may offer any competent evidence to establish its illegality, including proof of the invalidity of the patent.

ON WRIT of certiorari to the United States Circuit Court of Appeals for the Seventh Circuit. Reversed.

Mr. J. Bernhard Thiess (*Mr. Sidney Neuman* and *Mr. Leslie W. Fricke* with him on the brief) for Sola Electric Company.

Mr. Thomas H. Sheridan for Jefferson Electric Company.

Mr. Chief Justice STONE delivered the opinion of the Court.

The question for our decision is whether a patent licensee, by virtue of his license agreement, is estopped to challenge a price-fixing clause in the agreement by showing that the patent is invalid, and that the price restriction is accordingly unlawful because not protected by the patent monopoly.

Respondent brought the present suit in the District Court for the Northern District of Illinois, asserting diversity of citizenship, and alleging that it was the owner of Patent No. 1,777,256 for improvements in an electrical transformer; that it had entered into a license contract granting petitioner a non-exclusive license to manufacture and sell the patented transformers throughout the United States, its territories, dependencies and possessions, on payment of a stipulated royalty upon each transformer so manufactured and sold. The contract provided that the license was granted on condition that the "prices, terms, and conditions of sale, for use or sale" throughout the licensed territory should not be more favorable to petitioner's customers than those prescribed from time to time by respondent for its own sales and those of its other licensees. Respondent sought recovery of unpaid royalties and also an injunction restraining further sales except in conformity to the terms of the license agreement.

Petitioner by its answer admitted that it had manufactured two types of transformers, one covered by certain narrow claims of the patent, claims 8, 14, and 19, the validity of which it does not challenge, the other alleged to be covered by certain broader claims. Petitioner also filed a counterclaim alleging that the broad claims are invalid for want of novelty, as it asserted had been recognized in the sixth circuit in *France Mfg. Co.* v. *Jefferson Electric Co.*, 106 F.(2d) 605; and that respondent by reason of the price control provisions of the licensing contract and the invalidity of the broad claims was not entitled to recover royalties upon those transformers covered only by the broad claims. Petitioner accordingly prayed a declaratory judgment that most of the claims except 8, 14, and 19, are invalid, and for other relief.

[1] The Circuit Court of Appeals for the Seventh Circuit affirmed the district court's order dismissing the counterclaim, 125 F.(2d) 322, ruling that petitioner, having accepted a license under the patent, was estopped to deny its validity. And, treating the patent as valid, it held that the stipulation for control of the sales price of the patented articles manufactured by the licensee was a lawful exercise of the patent monopoly. We granted certiorari, 316 U. S. 652, the question being of importance to the administration of the patent laws and the Sherman Anti-Trust Act.

The circuit court of appeals, in holding that petitioner as a licensee was estopped to challenge the validity of the patent, did not say whether it considered that it was applying a rule of federal or of state law, and it cited no decisions of either the federal or the Illinois courts. Where no price-fixing stipulation was involved in the license contract, this rule of estoppel, which was not questioned by counsel, was applied without discussion in *United States* v. *Harvey Steel Co.*, 196 U. S, 310; cf. *Kinsman* v. *Parkhurst*, 18 How. 289. We need not decide whether in such a case the rule is one of local law, cf. *Dale Tile Mfg. Co.* v. *Hyatt*, 125 U. S. 46, 53–54, 43 O. G. 249, or whether, if it be regarded as a rule of federal law because the construction and application of the patent laws are involved, it was rightly applied in *United States* v. *Harvey Steel Co.*, supra. For here a different question is pre-

sented— whether the doctrine of estoppel as invoked below is so in conflict with the Sherman Act's prohibition of price-fixing that this Court may resolve the question even though its conclusion be contrary to that of a state court.

[2] The present license contract contemplates and requires that petitioner, on sales of the licensed transformers throughout the United States, shall conform to the prices fixed by respondent for the sale of competing patented articles by other licensees and by respondent. Such a restriction on the price of articles entering interstate commerce is a violation of the Sherman Act save only as it is within the protection of a lawfully granted patent monopoly. See *United States* v. *Univis Lens Co.*, 316 U. S. 241, 250, 540 O. G. 481, and cases cited; *United States* v. *Masonite Corp.*, 316 U. S. 265, 275–77, 540 O. G. 3. Agreements fixing the competitive sales price of articles moving interstate, not within the protection of a patent, are unlawful because prohibited by the Sherman Act.

[3] It is familiar doctrine that the prohibition of a federal statute may not be set at naught, or its benefits denied, by state statutes or state common law rules. In such a case our decision is not controlled by *Erie Railroad* v. *Tompkins*, 304 U. S. 64. There we followed state law because it was the law to be applied in the federal courts. But the doctrine of that case is inapplicable to those areas of judicial decision within which the policy of the law is so dominated by the sweep of federal statutes that legal relations which they affect must be deemed governed by federal law having its source in those statutes, rather than by local law. *Royal Indemnity Co.* v. *United States*, 313 U. S. 289, 296; *Prudence Corp.* v. *Geist*, 316 U. S. 89, 95; *Board of Comm'rs* v. *United States*, 308 U. S. 343, 349–50; cf. *O'Brien* v. *Western Union Telegraph Co.*, 133 F. (2d) 539, 541. When a federal statute condemns an act as unlawful the extent and nature of the legal consequences of the condemnation, though left by the statute to judicial determination, are nevertheless federal questions, the answers to which are to be derived from the statute and the federal policy which it has adopted. To the federal statute and policy, conflicting state law and policy must yield. Constitution, Art. VI, cl. 2; *Awotin* v. *Atlas Exchange Bank*, 295 U. S. 209; *Dietrick* v. *Greaney*, 309 U. S. 190, 200–01.

The federal courts have been consistent in holding that local rules of estoppel will not be permitted to thwart the purposes of statutes of the United States. See, in the case of federal statutes governing interstate freight rates, *Pittsburgh, etc. Ry. Co.* v. *Fink*, 250 U. S. 577, 582–83; *Chesapeake & Ohio Ry.* v. *Martin*, 283 U. S. 209, 220–23; cf. *Atchison & Topeka Ry.* v. *Harold*, 241 U. S. 371; and federal statutes affecting national banks, *Awotin* v. *Atlas Exchange Bank*, supra; *Dietrick* v. *Greaney*, supra.

[4] A state by applying its own law of specific performance may not compel the performance of a contract contemplating violation of the federal land laws, *Anderson* v. *Carkins*, 135 U. S. 483. Similarly this Court has declared that anyone sued upon a contract may set up as a defense that it is in violation of the Sherman Act. *Bement* v. *National Harrow Co.*, 186 U. S. 70, 88. And it has proceeded on the assumption that whether the parties to an agreement in violation of the act are in pari delicto is a question of federal, not state, law. *Harriman* v. *Northern Securities Co.*, 197 U. S. 244; *Eastman Co.* v. *Southern Photo Co.*, 273 U. S. 359, 376–78. It decided in *Continental Wall Paper Co.* v. *Voight & Sons Co.*, 212 U. S. 227, that a vendee of goods purchased from an illegal combination in pursuance of an illegal agreement, both in violation of the Sherman Act, can plead the illegality in defense to a suit for the purchase price. This decision went much further than it is necessary to go here to conclude that petitioner may assert the illegality of the price-fixing agreement and may offer any competent evidence to establish its illegality, including proof of the invalidity of the patent.

Local rules of estoppel which would fasten upon the public as well as the petitioner the burden of an agreement in violation of the Sherman Act must yield to the act's declaration that such agreements are unlawful, and to the public policy of the act which in the public interest precludes the enforcement of such unlawful agreements. Cf. *Morton Salt Co.* v. *Suppiger Co.*, 314 U. S. 488, 492–93, 536 O. G. 3.

Reversed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,365,523. (See 1,904,912.)

1,549,594, A. C. Menningen, Tumbler; 1,692,452, J. E. Kirkham, Skimmer scoop crane; 1,947,823, H. E. Brey, Crane driving and steering mechanism; 1,783,055, L. A. Russell, Hoe type shovel crane; 1,783,056, same, Instroke shovel crane, D. C., N. D. Ohio, W. Div., Doc. 4808, *Koehring Co.* v. *The Buckeye Traction Ditcher Co.* Dismissed Dec. 19, 1942.

1,660,516. (See 1,904,912.) 1,692,452. (See 1,549,594.)

1,747,206, D. A. Wilson, Overhead door construction, D. C., N. D. Iowa (Cedar Rapids), Doc. 52, *Rowe Mfg. Co.* v. *Hall Mfg. Co.* Defendant enjoined from infringing 1,747,206; Patents 2,196,803 and 2,264,642 withdrawn by stipulation of counsel (notice Dec. 11, 1942).

1,783,055. (See 1,549,594.) 1,783,056. (See 1,549,594.)

1,790,611. (See 1,871,099.) 1,811,524. (See 1,871,099.)

1,871,099, M. Vitoux, Needle-holding handle; 1,790,611, same, Knitting needle; 1,811,524, same, Needle for repairing knitted articles, D. C. N. J., Doc. 2275, *American Vitos Co., Inc.*, v. *Levy Bros. of Elizabeth, N. J., Inc.* Discontinued Nov. 16, 1942.

1,895,409, R. Drucker, Register or index; 2,115,537, E. W. Peter, Index device, D. C., S. D. N. Y., Doc. 4/33, *The Bates Mfg. Co. et al.* v. *Mutual Stationery Co., Inc.* Order (notice Nov. 18, 1942). Same, D. C. N. J., Doc. 364, *Bates Mfg. Co. et al.* v. *Universal Plastics Corp.* Dismissed Nov. 4, 1942.

1,904,912, C. F. Wolters, Monolithic filing cabinet and attachments therefor; 1,365,523, C. F. Meilink, Filing cabinet; 1,660,516, same, Bolt mechanism, D. C., N. D. Ohio, W. Div., Doc. 4406, *Remington Rand, Inc.*, v. *Meilink Steel Safe Co.* Patent 1,904,912 held not infringed, bill dismissed; counterclaim dismissed with prejudice Dec. 11, 1942.

1,933,099, H. Derman, Built up container; 2,009,482, same, Wardrobe, closet and the like; 2,070,924, same, Wardrobe, cabinet and the like; 2,172,956, same, Cabinet; 2,200,329, same, Double door closet; 2,206,347, 2,206,767, same, Collapsible closet; 2,235,574, same, Top shelf portable closet; 2,236,870, same, Knockdown cabinet; 2,235,573, same, Door cabinet, D. C., S. D. N. Y., Doc. 15/351, *Decorative Cabinet Corp.* v. *Odora Co., Inc., et al.* Dismissed for lack of prosecution (notice Dec. 7, 1942).

1,940,008. (See Re. 19,801.)

1,947,823. (See 1,549,594.)

1,975,109, Laughlin & Asch, Method and apparatus for treating sewage; 2,141,153, W. C. Laughlin, Sealing plate for sand filter cleaner, filed Nov. 27, 1942, D. C., S. D. N. Y., Doc. 20/11, *C. E. Fraser* v. *Underpinning & Foundation Co., Inc., et al.*

2,000,064. (See 2,120,230.)

2,001,726, L. S. Henwood, Printing pen; 2,121,541, same, Method of manufacturing pen points, appeal filed Dec. 28, 1942, C. C. A., 2d Cir., Doc. —, *C. Howard Hunt Pen Co.* v. *Radiant Point Pen Corp., et al.*

2,009,482. (See 1,933,099.)

2,026,513. (See Re. 21,497.)

2,041,675, Frank & Harper, Electrical distribution system; 2,059,988, W. H. Frank, same; 2,179,737, same, Switch; 2,103,325, Frank & Harper, Panel board; 2,128,999, 2,116,673, Fisher & Frank, Switch, D. C., E. D. Mo. (St. Louis), Doc. 544, *Bulldog Electric Products Co.* v. *Frank Adam Electric Co.* Dismissed for want of equity Dec. 3, 1942.

2,059,244. (See Re. 21,497.) 2,059,988. (See 2,041,675.) 2,070,924. (See 1,933,099.)

2,103,325. (See 2,041,675.) 2,115,537. (See 1,895,409.)

2,116,673. (See 2,041,675.)

2,120,230, 2,000,064, H. S. Cover, Respirator, C. C. A., 2d Cir., Doc. —, *H. S. Cover* v. *Hygeia Respirator Co.* Judgment affirmed as to 2,065,304 and 2,120,230; appeal dismissed as to 2,000,064 (notice Dec. 17, 1942).

2,121,541. (See 2,001,726.)

2,123,114, G. Looper, Tufting machine; 2,214,767, W. T. Kenner, Sr., et al., Tufting attachment for sewing machines, D. C., N. D. Ga. (Rome), Doc. 410, *Glenn Looper* v. *Crown Chenille Mfg. Co.* Dismissed Nov. 23, 1942.

2,127,468. (See Re. 21,030.)

2,128,999. (See 2,041,675.) 2,141,153. (See 1,975,109.)

2,152,093, W. Rubinstein, Collar; 2,204,152, same, Collar, cuff and the like, D. C., E. D. Mo. (St. Louis), Doc. 1785, *The Goodall Co.* v. *B. S. Rubinstein et al.* Finding in favor of plaintiff on question of plaintiff's infringment, declining to pass upon validity of defendant's patents, Nov. 6, 1942. (To correct error in 545 O. G., p. 912.)

2,172,956. (See 1,933,099.) 2,179,737. (See 2,041,675.)

2,181,685. (See Re. 21,809.)

2,181,688. (See Re. 21,809.)

2,200,329. (See 1,933,099.) 2,204,152. (See 2,152,093.)

2,206,347. (See 1,933,099.) 2,206,767. (See 1,933,099.)

2,214,767. (See 2,123,114.) 2,235,573. (See 1,933,099.)

2,235,574. (See 1,933,099.)

2,235,719, L. Matarese, Cargo loading and unloading apparatus; 2,235,720, same, Cargo loading and unloading platform, D. C., S. D. N. Y., Doc. 15/462, *L. Matarese* v. *Barber Steamship Lines, Inc., et al.* Dismissed for lack of prosecution (notice Dec. 7, 1942).

2,235,720. (See 2,235,719.) 2,236,870. (See 1,933,099.)

2,261,057. (See Re. 21,809.)

2,261,100. (See Re. 21,809.)

2,261,101. (See Re. 21,809.)

2,181,685. (See Re. 21,809.)

2,181,688. (See Re. 21,809.)

2,297,297. (See Re. 21,809.)

Re. 19,801 (of 1,940,008), C. A. Mosgrove, Distributor mechanism, D. C., S. D. Ill., S. Div., Doc. E 2260, *C. A. Mosgrove* v. *Portable Elevator Mfg. Co.* Patent held infringed; bill dismissed (notice Nov. 27, 1942).

Re. 20,896. (See Re. 21,030.)

Re. 21,030 (of Re. 20,896 and 2,127,468), E. H. Greibach, Bone-conduction hearing device, D. C. Minn. (Minneapolis), Doc. 700, *E. H. Greibach et al.* v. *The Maico Co., Inc.* Judgment against Maico Co., Inc., Nov. 24, 1942.

Re. 21,497 (of 2,026,513), P. Trombetta, Electromagnetic brake; 2,059,244, E. C. Kiekhoefer, Automatic brake, D. C., E. D. Wis. (Milwaukee), Doc. 725, *Stearns Magnetic Mfg. Co.* v. *P. Trombetta.* Dismissed Dec. 23, 1942.

Re. 21,809, Wagner & Carr, Method and apparatus for water-drive production of mineral oil; 2,181,685, 2,181,688, J. P. Walker, Treatment of oil, gas and water emulsions; 2,297,297, same, Treatment of oil, gas, and water mixtures; 2,261,057, R. W. Erwin, Emulsion treating and brine injection system for oil wells; 2,261,100, same, Brine injection method for oil wells; 2,261,101, same, Emulsion treating apparatus, filed Dec. 24, 1942, D. C., N. D. Tex. (Fort Worth), Doc. 477, *National Tank Co. et al.* v. *Salt Water Control, Inc., et al.*

Des. 91,558, Des. 96,099, S. W. Farber, Candelabra; Des. 96,374, same, Standard for a candelabra, D. C., S. D. N. Y., Doc. 15/35, *S. W. Farber, Inc., et al.* v. *J. Lulla et al.* Dismissed for lack of prosecution (notice Dec. 7, 1942).

Des. 96,099. (See Des. 91,558.)

Des. 96,374. (See Des. 91,558.)

Des. 128,207, O. Hauptman, Coat; Des. 130,976, J. H. Matlin, same, D. C., S. D. N. Y., Doc. 16/78, *Oscar J. Hauptman Co., Inc.,* v. *Matlin Cloak & Suit, Inc., et al.* Consent order of discontinuance as to Matlin Cloak & Suit, Inc., Oct. 28, 1941. Final Judgment Dec. 14, 1942.

Des. 130,976. (See Des. 128,207.)

Des. 131,323, Des. 131,324, J. H. Abt, Textile fabric, D. C., S. D. N. Y., Doc. 17/254, *Shipman & Baker, Inc.,* v. *Philip Schlansky & Bro., Inc., et al.* Stipulation of discontinuance (notice Nov. 23, 1942.)

Des. 131,324. (See Des. 131,323.)

Des. 134,339. (See Des. 134,383.)

Des. 134,383, Des. 134,339, H. Wiesen, Dress, filed Dec. 3, 1942, D. C., S. D. N. Y., Doc. 20/48, *Wiesen-Victor, Inc.,* v. *Spector & Sandler, Inc., et al.*

Disclaimers

1,704,665.—*Morris P. Holmes,* Claremont, N. H. MINING APPARATUS. Patent dated March 5, 1929. Disclaimer filed January 9, 1943, by the assignee, *Sullivan Machinery Company.*

Hereby enters this disclaimer to claim 13 in said specification.

2,254,022.—*James N. Whitaker,* Weehawken, N. J. ELECTRICAL WAVE GENERATOR. Patent dated August 26, 1941. Disclaimer filed December 31, 1942, by the inventor; the assignee, *Radio Corporation of America,* consenting.

Hereby enters this disclaimer to claims 1 through 4 of said patent.

2,266,922.—*Leslie Ernest Thompson* and *Alexander Jenkins,* London, England. MANUFACTURE OF ALTERNATING CURRENT RECTIFIERS. Patent dated December 23, 1941. Disclaimer filed December 30, 1942, by the assignee, *The Union Switch and Signal Company.*

Hereby disclaims the subject matter of claims 1, 2, and 4.

Trade-Mark Registrations Canceled

168,606. Candy. The Friedman-Kerr Co., Chicago, Ill. Registered May 29, 1923. Canceled Dec. 21, 1942.

387,394. Work Gloves. Wells-Lamont-Smith Corporation, Chicago, Ill. Registered May 13, 1941. Canceled Dec. 21, 1942.

394,395. Dresses. Dorothy Hobbs, Inc., New York, N. Y. Registered Mar. 31, 1942. Canceled Dec. 21, 1942.

394,976. Face Powder. Coty, Inc., New York, N. Y. Registered May 5, 1942. Canceled Jan. 18, 1943.

395,981. Yeast Culture. Mid-Continental Laboratories, Kansas City, Mo. Registered June 23, 1942. Canceled Jan. 18, 1943.

Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., Dec. 30, 1942.*

Murray J. Bliss, his assigns or legal representatives, take notice:

An application for cancellation having been filed in this Office of Soilicide Laboratories, 51 James St., Montclair, N. J., to effect the cancellation of trade-mark registration of Murray J. Bliss, 948 Gladstone Ave., Indianapolis, Ind., No. 344,234, dated March 16, 1937, and the notice of such proceeding sent by registered mail to the said Murray J. Bliss at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Murray J. Bliss, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., Jan. 11, 1943.*

George Booskos, his assigns or legal representatives, take notice:

An application for cancellation having been filed in this Office by Riverbank Canning Company, Riverbank, Calif., to effect the cancellation of trade-mark registration of George Booskos, 2219 First Ave., New York, N. Y., No. 221,110, dated November 23, 1926, and the notice of such proceeding sent by registered mail to the said George Booskos at the said address having been returned by the post office undeliverable, notice is hereby given that unless said George Booskos, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, FEBRUARY 2, 1943

[Vol. 547. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 455,398. Manufacturers Chemical Corporation, Berkeley Heights, N. J. Filed Sept. 7, 1942.

CHEMACO

FOR CELLULOSE ACETATE PLASTIC MOLDING MATERIALS IN PULP AND GRANULATED FORM.
Claims use since Aug. 31, 1942.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 456,587. Deauville Bags, Inc., New York, N. Y. Filed Nov. 2, 1942.

STARDUST

FOR POCKETBOOKS AND HANDBAGS.
Claims use since January, 1933.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 449,133. Catherine K. Gordon, doing business as House of Gordon, Chicago, Ill. Filed Dec. 3, 1941.

Mlle Charme

FOR SOAP.
Claims use since May 10, 1940.

Ser. No. 452,341. York Pharmacal Company, St. Louis, Mo. Filed Apr. 14, 1942.

Spotlight

FOR DRY CLEANING FLUID.
Claims use since Nov. 1, 1941.

Ser. No. 456,103. Para Ti Corporation, New York, N. Y. Filed Oct. 9, 1942.

Tuya

The mark consists of the word "Tuya." The English translation of which is "For Thee Alone."
FOR SOAP.
Claims use since July 15, 1942.

Ser. No. 456,891. ILLINOIS RAZOR STROP COMPANY, Chicago, Ill. Filed Nov. 18, 1942.

No claim is made to the word "Shell" apart from the mark.

FOR RAZOR STROPS.

Claims use since May 11, 1909.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 452,649. NATIONAL DRUG AND CHEMICAL COMPANY OF CANADA, LIMITED, Montreal, Canada. Filed Apr. 28, 1942.

Ursina

FOR TOILET PREPARATION FOR THE HAIR IN THE FORM OF A POMADE.

Claims use since 1866.

Ser. No. 453,247. OTTO E. LINCK, doing business as Soilicide Laboratories, Montclair, N. J. Filed May 25, 1942.

Stripsoff

FOR CHEMICAL PREPARATION FOR REMOVING WALL PAPER.

Claims use since May 20, 1941.

Ser. No. 454,644. W. B. ASSOCIATES, New York, N. Y. Filed July 31, 1942.

Softol

FOR CUTICLE LUBRICANT.

Claims use since July 15, 1941.

Ser. No. 455,163. KRIM-KO COMPANY, Chicago, Ill. Filed Aug. 28, 1942.

CARRAGAR

FOR A PRODUCT USED AS AN EMULSIFYING, JELLYING, SIZING, SUSPENDING AND STABILIZING AGENT IN FOOD, PHARMACEUTICAL AND TEXTILE INDUSTRIES WHERE SUCH AN AGENT IS USED.

Claims use since Aug. 21, 1942.

Ser. No. 455,717. GEORGE A. BREON & COMPANY, Kansas City, Mo. Filed Sept. 24, 1942.

BENZOLIN

FOR OINTMENT FOR THE RELIEF OF MINOR WOUNDS AND BURNS.

Claims use since Oct. 1, 1929.

Ser. No. 455,889. JOHN L. NORRIS, JR., doing business as Vello Products, Lyndonville, Vt. Filed Oct. 1, 1942.

Vello

FOR OINTMENT FOR MINOR CUTS AND BURNS AND FOR COLD CREAM.

Claims use since Sept. 22, 1942.

Ser. No. 457,067. THE NEVILLE COMPANY, Neville Island, Pittsburgh, Pa. Filed Nov. 26, 1942.

NEVSOL

FOR LIQUID HYDROCARBON SOLVENTS OF GENERAL USE IN THE INDUSTRIAL ARTS AND PARTICULARLY AS A SUBSTITUTE FOR TOLUOL WHERE TOLUOL IS USED FOR ITS SOLVENT ACTION.

Claims use since June 17, 1942.

Ser. No. 457,249. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Dec. 7, 1942.

ANATOLA

FOR VITAMIN PREPARATION.

Claims use since Nov. 6, 1942.

Ser. No. 457,268. HENRY H. BEISNER, doing business as H. H. Beisner (Chemicals), New York, N. Y. Filed Dec. 8, 1942.

Asthmolysin

FOR PHARMACEUTICAL PREPARATION USEFUL IN TREATMENT OF ASTHMA.

Claims use since Sept. 1, 1942.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 449,258. THE FLINTKOTE COMPANY, New York, N. Y. Filed Dec. 8, 1941.

COL-PLY

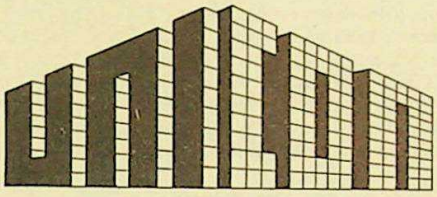
FOR BITUMINOUS ROOFING CEMENT.
Claims use since July, 1940.

Ser. No. 449,259. THE FLINTKOTE COMPANY, New York, N. Y. Filed Dec. 8, 1941.

FIBREX

FOR BITUMINOUS ROOFING CEMENT.
Claims use since June, 1940.

Ser. No. 456,575. UNICON COMPANY, Kansas City, Mo. Filed Oct. 31, 1942.



FOR HOLLOW SHEET METAL AND WOOD BUILDING BLOCKS, PORTABLE SECTIONAL BUILDINGS, AND PARTS FOR PORTABLE SECTIONAL BUILDINGS—NAMELY, FLOOR SECTIONS, WALL SECTIONS, CEILING SECTIONS, ROOF SECTIONS, INTERLOCKING DEVICES FOR SAID SECTIONS AND STRUCTURAL ELEMENTS, SPECIALLY FORMED TO COMPLEMENT THE INTERLOCKING DEVICES AND SAID SECTIONS.
Claims use since May, 1939.

Ser. No. 456,989. CHARLES E. MORRIS, doing business as C. E. Morris and Company, Dallas, Tex. Filed Nov. 23, 1942.

MORCO

FOR CEMENT PIPES, CEMENT CONDUITS, CEMENT STACKS, AND CHIMNEY SECTIONS.
Claims use since Aug. 1, 1942.

Ser. No. 457,027. BARCLAY MANUFACTURING COMPANY, INC., New York, N. Y. Filed Nov. 25, 1942.

CHEVRON

FOR PRESSED WOOD FIBER WALL BOARD.
Claims use since Oct. 27, 1942.

Ser. No. 457,331. DUSSEK BROTHERS & COMPANY LIMITED, Crayford, England. Filed Dec. 11, 1942.

PETROPUT

FOR GLAZING PUTTY FOR WINDOWS AND THE LIKE.
Claims use since May 29, 1942.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 455,969. MORRIS FINKELSTEIN, New York, N. Y. Filed Oct. 5, 1942.

Lorraine-Zip

Applicant disclaims the word "Lorraine" apart from the mark.
FOR SLIDE FASTENERS.
Claims use since Sept. 14, 1942.

Ser. No. 456,252. SWEDISH CRUCIBLE STEEL COMPANY, Detroit, Mich. Filed Oct. 16, 1942.

OLSON-ITE

No claim is made to the word "Olson" apart from the mark.
FOR TOILET SEATS.
Claims use since Aug. 1, 1942.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 456,188. GEORGIA KAOLIN COMPANY, Elizabeth, N. J. Filed Oct. 14, 1942.

HYDRITE

FOR CLAYS USED AS EXTENDERS IN PROTECTIVE PAINT COATINGS.
Claims use since Sept. 18, 1942.

Ser. No. 456,496. JOSHUA M. RICHARDS, Boston, Mass. Filed Oct. 28, 1942.

PROTECTITE

FOR PAINT IN READY MIXED FORM.
Claims use since Oct. 17, 1942.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 427,586. LINCOLN MOTOR COMPANY, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich. Filed Jan. 18, 1940.

Lincoln Zephyr

The applicant is the owner of trade-mark registrations 332,052, dated Jan. 28, 1936; 383,128, dated Nov. 26, 1940; and 383,572, dated Dec. 17, 1940.
FOR VEHICLE HEATERS AND DEFROSTERS UTILIZING HOT ENGINE FLUIDS.
Claims use since Sept. 15, 1936.

Ser. No. 447,554. AMERICAN CAR AND FOUNDRY COMPANY, New York, N. Y. Filed Oct. 6, 1941.

FOR RAILWAY CARS—NAMELY, RAIL MOTOR CARS.

Claims use since Sept. 6, 1941.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 454,374. PHILCO CORPORATION, Philadelphia, Pa. Filed July 21, 1942.

PHILCO

FOR BATTERY PARTS AND SUPPLIES—NAMELY, STRAPS, CONNECTORS, TERMINALS, VENT CAPS, JARS, COVERS, WOOD CASES, AND SEALING COMPOUNDS; RADIO RECEIVING SETS; RADIO-PHONOGRAPH COMBINATIONS; RADIO SPEAKERS; RADIO PARTS AND SUPPLIES—NAMELY, RADIO POWER SUPPLY DEVICES, VACUUM TUBES, POWER TRANSFORMERS, FIXED CONDENSERS, FIXED RESISTORS, VARIABLE RESISTORS, RADIO FREQUENCY COILS, SWITCHES, PUSH-PULL TRANSFORMERS, SPEAKER FIELD COILS, FILTER CONDENSERS, VARIABLE CONDENSER PARTS, LOUD SPEAKER CONES, FIXED RADIO FREQUENCY TRANSFORMERS, RADIO FREQUENCY CHOKES, PILOT LAMPS, OSCILLATORS, KNOBS, TUBE SHIELDS, VARIABLE CONDENSERS, TUNING SCALES, CONTROL GRID CLIPS, RUBBER MOUNTING WASHERS, TUBE SOCKETS, NEUTRALIZING CONDENSERS, SHIELDING LIDS, SPEAKER SOCKETS, BINDING POSTS AND PANELS, SPEAKER CABLES, RADIO CHASSIS, AUDIO FREQUENCY AMPLIFIERS, RADIO FREQUENCY AMPLIFIERS, INTERFERENCE FILTERS, AERIAL KITS, EXTENSION SPEAKERS, ELECTROLYTIC CONDENSERS, TERMINAL STRIPS, VOLUME CONTROLS, HUM CONTROLS, TONE CONTROLS, HEADPHONES, FUSES, ELECTRICAL CONNECTOR PLUGS, WAVE TRAPS, LIGHTING BULBS, WIRE SHIELDING, BAND SWITCHES, REMOTE CONTROL DEVICES, DRY BATTERIES, SIGNAL GENERATORS, AUTOMOBILE RADIOS, HOUSEHOLD POWER LINE CORD, TUNING CONTROL AND CABLE, AUTOMOBILE DYNAMOTORS, AUTOMOBILE RADIO CONTROLS, HEADPHONE KITS, HIGH FIDELITY DEMONSTRATORS, MICROPHONES, AERIAL MASTS, AMPLIFIER AND MICROPHONE KITS, AERIAL WINDOW LEAD-IN STRAPS, UNDER CAR AERIALS, WIRED INTERPHONE SYSTEMS, AUTOMOBILE SUPPRESSOR CHOKES, AUTOMATIC TUNING DEVICES, GRID BIAS CELLS, AUTOMOBILE AERIAL ADAPTORS, WIRELESS RECORD PLAYERS, AUTOMOBILE EXTENSION SPEAKERS, RADIO TUBE REMOVERS, CERAMIC ELECTRIC INSULATORS, AND CERAMIC ELECTRIC WALL OUTLETS.

Claims use on straps, connectors, terminals, vent caps, jars, covers, wood cases, and sealing compounds since Mar. 1, 1923; on radio receiving sets since June 25, 1928; on radio-phonograph combinations since the year 1931; on radio speakers since July 31, 1928; on radio power supply devices since the year 1925; on vacuum tubes since June, 1929; on power transformers, fixed condensers, fixed resistors, variable resistors, radio frequency coils, switches, push-pull transformers, speaker field coils, filter condensers, variable condenser parts, and loud speaker cones since Jan. 13, 1930; on fixed radio frequency transformers since Feb. 25, 1930; on radio frequency chokes, pilot lamps, oscillators, knobs, tube shields, variable condensers, tuning scales, control grid clips, rubber mounting washers, tube sockets, neutralizing condensers, shielding lids, speaker sockets, binding posts and panels, and speaker cables since March, 1930; on radio chassis since the year 1928; on audio frequency amplifiers and radio frequency amplifiers since the year 1932; on interference filters since the year 1929; on aerial kits since the year 1934; on extension speakers since the year 1928; on electrolytic condensers since the year 1932; on terminal strips, volume controls, and hum controls since the year 1928; on tone controls since the year 1929; on headphones since the year 1928; on fuses since the year 1932; on electrical connector plugs since the year 1924; on wave traps since the year 1929; on lighting bulbs since the year 1930; on wire shielding and band switches since the year 1932; on remote control devices since the year 1938; on dry batteries and signal generators since the year 1932; on automobile radios since the year 1931; on household power line cord since the year 1929; on tuning control and cable since the year 1928; on automobile dynamotors since the year 1932; on automobile radio controls since the year 1931; on headphone kits, high fidelity demonstrators, and microphones since the year 1934; on aerial window lead-in straps since the year 1935; on under car aerials, wired interphone systems, and automobile suppressor chokes since the year 1936; on automatic tuning devices, grid bias cells, and automobile aerial adaptors since the year 1937; on wireless record players and automobile extension speakers since the year 1938; on radio tube removers since the year 1941; on ceramic electric insulators since the year 1928; and on ceramic electric wall outlets since the year 1931.

Ser. No. 454,441. ZENITH RADIO CORPORATION, Chicago, Ill. Filed July 22, 1942.

The Royalty of Radio

No claim is made to the word "Radio" apart from the mark.

FOR RADIO AND TELEVISION RECEIVING SETS AND PARTS THEREOF.

Claims use since Mar. 16, 1942.

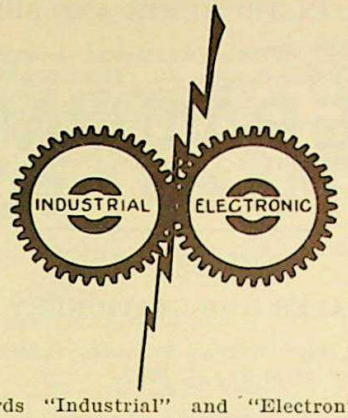
Ser. No. 454,442. ZENITH RADIO CORPORATION, Chicago, Ill. Filed July 22, 1942.

No claim is made to the figures "1943" or the word "Radio" apart from the mark.

FOR RADIO AND TELEVISION RECEIVING SETS AND PARTS THEREOF.

Claims use since Mar. 16, 1942.

Ser. No. 454,446. INDUSTRIAL ELECTRONICS CORPORATION, Newark, N. J. Filed July 23, 1942.



The words "Industrial" and "Electronic" are disclaimed apart from the mark.

FOR INCANDESCENT, FLUORESCENT, SHORT WAVE, AND ULTRA VIOLET LAMPS FOR USE IN AIRPLANE DETECTION, MEAT TENDERIZING, AND ILLUMINATION, AND FOR THE ASSOCIATED CONTROL EQUIPMENT INCLUDING ELECTRICALLY AND MANUALLY OPERATED BALLAST, RHEOSTAT, AND TRANSFORMER.

Claims use since July 8, 1942.

Ser. No. 455,339. THE FOSTORIA PRESSED STEEL CORP., Fostoria, Ohio. Filed Sept. 4, 1942.

GENERALITE

FOR FIXTURES, BRACKETS, AND SUPPORTS FOR ELECTRICALLY-GENERATED-RAY HANDLING APPARATUS FOR SHOPS, CHAMBERS, AREAS, AND THE LIKE, MORE PARTICULARLY AS PROJECTING SAID RAYS FROM SINGLE AND MULTIPLE SOURCE AND SUCH ASSEMBLING AND MOUNTING IN APPROPRIATE GROUPINGS AND SPACINGS FOR SAID EQUIPMENT TO RESPOND TO THE REQUIREMENTS OF THE SERVICE OR WORK, INCLUDING PARTS OF SAID APPARATUS.

Claims use since Aug. 12, 1942.

Ser. No. 456,720. NORTHAM WARREN CORPORATION, Stamford, Conn. Filed Nov. 9, 1942.

N. W.

FOR ELECTRICAL INSULATOR PLUGS.

Claims use since Nov. 4, 1942.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 454,831. GEO. H. MAUS, INC., Amsterdam, N. Y. Filed Aug. 10, 1942.

GOLD MEDAL

FOR BAMBOO VAULTING POLES AND BAMBOO SKI POLES.

Claims use since July 22, 1910.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 447,818. MOORMAN MANUFACTURING COMPANY, Quincy, Ill. Filed Oct. 15, 1941. Under section 5b of the act of 1905 as amended in 1920.

MoorMan's

Applicant is owner of Reg. No. 376,000, effected under the 10-year proviso.

FOR MECHANICAL FEED MIXERS FOR MIXING FEEDS FOR FARM ANIMALS.

Claims use since 1939.

Ser. No. 457,176. SPECTRATONE, INC., Berkeley, Calif. Filed Dec. 2, 1942.

SPECTRATONE

FOR THREE-COLOR SCREENED PLATES FOR LETTER PRESS PRINTING, ROTARY PRESS PRINTING, NEWSPAPER PRINTING, ROTOGRAVURE, AND LITHOGRAPHY.

Claims use since November, 1941.

Ser. No. 457,281. REMINGTON RAND INC., Buffalo, N. Y. Filed Dec. 8, 1942.

The Duchess

FOR DRY SHAVERS AND PARTS THEREOF.

Claims use since Aug. 27, 1940.

Ser. No. 457,282. REMINGTON RAND INC., Buffalo, N. Y. Filed Dec. 8, 1942.

FOURSOME

FOR DRY SHAVERS AND PARTS THEREOF.

Claims use since July 16, 1941.

Ser. No. 457,323. WESTINGHOUSE AIR BRAKE COMPANY, Borough of Wilmerding, Pa. Filed Dec. 10, 1942.

ROTAIR

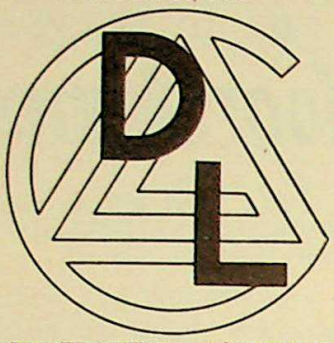
FOR FLUID PRESSURE CONTROL SELECTOR VALVES FOR MARINE CONTROL EQUIPMENTS OF THE CLASS OPERATIVE BY COMPRESSED AIR, SUCH AS A VALVE UNIT OPERATIVE TO CONDITION A FLUID PRESSURE ACTUATED MANEUVERING GEAR ON A BOAT FOR REMOTE CONTROL EITHER FROM THE ENGINE ROOM, OR FROM THE PILOT HOUSE OR LOG DESK, AND FOR SELECTOR VALVE UNITS OF THE TYPE COOPERATIVE WITH THE FLUID PRESSURE CONTROL SYSTEM OF A BOAT TO INTERLOCK A POWER TRANSMISSION OR CLUTCH WITH A PROPELLER BRAKE.

Claims use since Aug. 31, 1942.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 457,115. DETROIT LUBRICATOR COMPANY, Detroit, Mich. Filed Nov. 30, 1942.

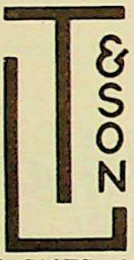


FOR TEMPERATURE ACTUATED ELECTRIC SWITCHES.
Claims use since Nov. 24, 1942.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 455,771. LOUIS TAMIS & SON, New York, N. Y. Filed Sept. 25, 1942.



FOR CIGARETTE CASES, CIGAR CASES, VANITIES, PUFF BOXES, COMPACTS, LIGHTERS, WATCH-BRACELETS NOT INCLUDING WATCHES, BRACELETS, CLIPS, EARRINGS, CUFF LINKS, TIE CLIPS, CIGARETTE HOLDERS, CIGAR HOLDERS, KNIVES, PENS, PENCILS, AND COLLAR CLIPS WHICH ARE MADE OF PRECIOUS METAL.
Claims use since June, 1933.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 457,305. ALTOONA MATTRESS MFG. COMPANY, INC., Altoona, Pa. Filed Dec. 10, 1942.

SUNBLEST

FOR MATTRESSES AND BOX SPRINGS.
Claims use since 1928.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 457,335. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed Dec. 11, 1942.

FREIGHTER

FOR PNEUMATIC TIRES AND TUBES.
Claims use since Aug. 1, 1942.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 456,280. F. E. WILLIAMSON, doing business as The Paraloy Co., Chicago, Ill. Filed Oct. 19, 1942.

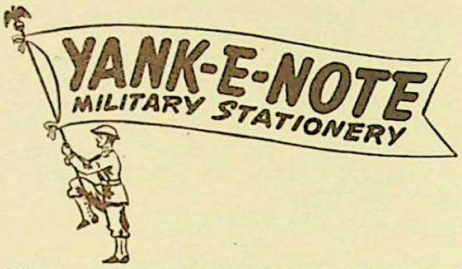
PERMIUM

FOR PHONOGRAPH NEEDLES.
Claims use since Aug. 4, 1941.

CLASS 37

PAPER AND STATIONERY

Ser. No. 454,781. MUTUAL PRINTING COMPANY, Philadelphia, Pa. Filed Aug. 7, 1942.



No claim is made to the words "Note" and "Military Stationery" apart from the mark.
FOR WRITING PAPER AND ENVELOPES.
Claims use since July 1, 1942.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 445,003. ASSOCIATED INDUSTRIES OF MASSACHUSETTS, Boston, Mass. Filed July 2, 1941.

INDUSTRY

FOR PERIODICAL.
Claims use since Mar. 16, 1918.

Ser. No. 456,590. DELL PUBLISHING COMPANY, INC., New York, N. Y. Filed Nov. 2, 1942.

HOLLYWOOD WHO'S WHO

No claim is made to the word "Hollywood" except as shown.
FOR PRINTED PUBLICATION ISSUED FROM TIME TO TIME.
Claims use since Feb. 14, 1941.

Ser. No. 456,591. DELL PUBLISHING COMPANY, INC., New York, N. Y. Filed Nov. 2, 1942.

THE MODERN HOSTESS
COOK BOOK

No claim is made to the words "Cook Book" apart from the mark.
FOR PERIODICAL PUBLICATION INCLUDING RECIPES FOR COOKING.
Claims use since Jan. 3, 1939.

Ser. No. 457,024. ZIFF-DAVIS PUBLISHING COMPANY, Chicago, Ill. Filed Nov. 24, 1942.

Mammoth DETECTIVE

The word "Detective" is disclaimed apart from the mark.

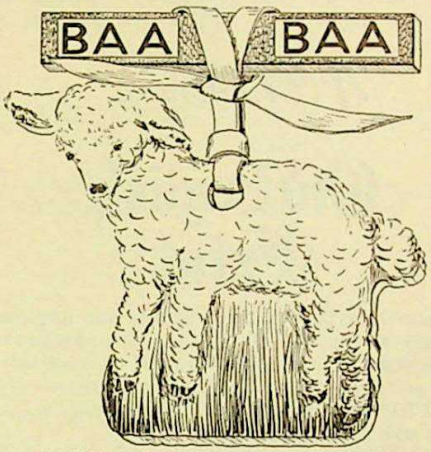
FOR PERIODICAL.

Claims use since Mar. 10, 1942.

CLASS 39

CLOTHING

Ser. No. 453,430. CARLISLE SPORTSWEAR, INC., New York, N. Y. Filed June 3, 1942.



FOR LADIES', MISSES' AND GIRLS' KNITTED SWEATERS, WAISTS, COATS, AND DRESSES.

Claims use since Apr. 10, 1942.

Ser. No. 455,277. RENART SPORTSWEAR CORP., New York, N. Y. Filed Sept. 2, 1942.

Station-Wagon

FOR WOMEN'S AND GIRLS' SWEATERS.

Claims use since Sept. 8, 1939.

Ser. No. 455,350. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va., and New York, N. Y. Filed Sept. 4, 1942.

Spunray

FOR MEN'S AND WOMEN'S SHIRTS, SLACKS, AND ENSEMBLES—NAMELY, SPORT SHIRTS AND HARMONIZING OR CONTRASTING SLACKS TO BE WORN BY MEN, WOMEN, AND CHILDREN.

Claims use since Feb. 24, 1937.

Ser. No. 456,729. GEORGE EDELMAN, doing business as George Edelman Co., New York, N. Y. Filed Nov. 10, 1942.

CEL-TEX

FOR CAPES, SHAMPOO CAPES, BEAUTY PARLOR AND BOUDOIR CAPES, APRONS, BEAUTY OPERATORS' APRONS, SHOWER CAPS, AND BATHING CAPS.

Claims use since July, 1942.

Ser. No. 456,835. SOL SHERMAN, doing business as Sherman Bows, New York, N. Y. Filed Nov. 14, 1942.

SWIMMANDO

FOR SWIMMING SUITS FOR MEN, WOMEN AND CHILDREN; SWIMMING TRUNKS, BEACH ROBES AND COATS, SLACKS, SLACK SUITS, AND OVERALLS; PLAY SUITS; BEACH SHOES AND SLIPPERS MADE OF RUBBER, CORK, LEATHER, CANVAS AND COMBINATIONS THEREOF; SWIMMING CAPS; BEACH HATS AND CAPS; SPORT JACKETS AND PARKAS; OUTER SHIRTS, SWEATERS; AND NECKTIES.

Claims use since Nov. 2, 1942.

Ser. No. 456,985. MORRIS W. HAFT & BROTHERS, New York, N. Y. Filed Nov. 23, 1942.

The word "Swansdown" is disclaimed apart from the mark.

FOR LADIES' AND MISSES' COATS, SUITS, JACKETS, SKIRTS, AND COAT AND SUIT ENSEMBLES.

Claims use since May, 1922.

Ser. No. 457,020. SEYMOUR TROY, New York, N. Y. Filed Nov. 24, 1942.

Two-Fold

FOR MEN'S, WOMEN'S, AND CHILDREN'S SHOES MADE OF LEATHER OR FABRIC OR COMBINATIONS THEREOF.

Claims use since Oct. 2, 1942.

Ser. No. 457,122. KNOXVILLE GLOVE COMPANY, Knoxville, Tenn. Filed Nov. 30, 1942.

BIG DEAL

FOR GLOVES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THESE MATERIALS.

Claims use since July 10, 1942.

Ser. No. 457,125. Knoxville Glove Company, Knoxville, Tenn. Filed Nov. 30, 1942.

HOT-STUF

FOR GLOVES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THESE MATERIALS.
Claims use since July 10, 1942.

Ser. No. 457,127. Knoxville Glove Company, Knoxville, Tenn. Filed Nov. 30, 1942.

IRON MIKE

FOR GLOVES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THESE MATERIALS.
Claims use since July 10, 1942.

Ser. No. 457,128. Knoxville Glove Company, Knoxville, Tenn. Filed Nov. 30, 1942.

IT'S-A-CAT

FOR GLOVES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THESE MATERIALS.
Claims use since July 10, 1942.

Ser. No. 457,131. Knoxville Glove Company, Knoxville, Tenn. Filed Nov. 30, 1942.

LOAD LIFTER

FOR GLOVES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THESE MATERIALS.
Claims use since July 10, 1942.

Ser. No. 457,136. Knoxville Glove Company, Knoxville, Tenn. Filed Nov. 30, 1942.

WHITE LIGHTNING

FOR GLOVES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THESE MATERIALS.
Claims use since July 10, 1942.

Ser. No. 457,137. Knoxville Glove Company, Knoxville, Tenn. Filed Nov. 30, 1942.

WOODSMAN

FOR GLOVES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THESE MATERIALS.
Claims use since July 10, 1942.

Ser. No. 457,147. The Superb Glove Company, Johnstown, N. Y. Filed Nov. 30, 1942.

BOUNCER

FOR MEN'S GLOVES OF LEATHER, FABRIC, AND COMBINATIONS THEREOF.
Claims use since Feb. 18, 1941.

Ser. No. 457,162. Blue Swan Mills, Inc., New York, N. Y. Filed Dec. 2, 1942.

VICTRIKINS

FOR LADIES' AND CHILDREN'S UNDERWEAR.
Claims use since Oct. 1, 1942.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 456,450. Wm. Anderson Textile Mfg. Co. Ltd., New York, N. Y. Filed Oct. 27, 1942.

Wm. Anderson

Daisycrisp

The name Wm. Anderson is the facsimile signature of the founder of applicant's business.
FOR PRINTED COTTON PIECE GOODS.
Claims use since May, 1942.

Ser. No. 456,453. Wm. Anderson Textile Mfg. Co. Ltd., New York, N. Y. Filed Oct. 27, 1942.

Wm. Anderson

Old English Print

No claim is made to the words "Old English Print" apart from the mark. The name Wm. Anderson is the facsimile signature of the founder of applicant's business.
FOR PRINTED COTTON PIECE GOODS.
Claims use since May, 1942.

Ser. No. 456,672. House Beautiful Curtains, Inc., New York, N. Y. Filed Nov. 6, 1942.

WONDA WASH

The word "Wash" is disclaimed apart from the mark.
FOR CURTAINS, DRAPERIES, BEDSPREADS, SLIP COVERS, AND FURNITURE SCARFS MADE OF COTTON, RAYON, SILK, WOOL, AND MIXTURES OF SAME.
Claims use since May 29, 1942.

Ser. No. 456,681. Deltox Rug Company, Oshkosh, Wis. Filed Nov. 7, 1942.

DELVOGUE

No claim is made to the word "Vogue" apart from the term "Del."
FOR RUGS, FLOOR MATS, AND FLOOR COVERINGS OF COMBINATION COTTON AND FIBRE MATERIALS.
Claims use since 1932.

Ser. No. 457,008. KANMAK TEXTILES, INC., New York, N. Y. Filed Nov. 24, 1942.

MAKANETTE

FOR WATER REPELLENT PIECE GOODS OF COTTON AND RAYON.
Claims use since Sept. 22, 1942.

Ser. No. 457,223. M. LOWENSTEIN & SONS, INC., New York, N. Y. Filed Dec. 5, 1942.

GREMLINS

FOR COTTON AND/OR RAYON PIECE GOODS.
Claims use since Nov. 17, 1942.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 455,383. THE SINGER MANUFACTURING COMPANY, Elizabeth, N. J. Filed Sept. 5, 1942.

SINGER

Applicant is the owner of Reg. 388,712.
FOR SURGICAL STITCHING INSTRUMENTS, THEIR PARTS AND ATTACHMENTS—NAMELY, NEEDLES, BOBBINS AND BOBBIN WINDERS.
Claims use since June 5, 1942.

Ser. No. 457,315. NATIONAL RETAILER-OWNED GROCERS, INC., Chicago, Ill. Filed Dec. 10, 1942.

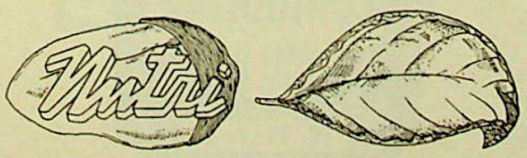
keks

FOR SANITARY NAPKINS.
Claims use since Nov. 21, 1942.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 454,484. VICTOR SYRUP CORPORATION, Long Island City, N. Y. Filed July 24, 1942.



FOR SYRUP, CONCENTRATES, AND EXTRACTS FOR CARBONATED, NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS.
Claims use since June 15, 1942.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 445,998. THE METRO CHOCOLATE CO. INC., New York, N. Y. Filed Aug. 5, 1941. Under 10-year proviso.

Ridley's

FOR CANDIES.
Claims use since 1806.

Ser. No. 451,336. THE BRITISH ARKADY COMPANY LIMITED, Manchester, England. Filed Mar. 2, 1942.

MOOLAC

FOR IMPROVER FOR FLOUR CONFECTIONERY COMPRISING A COMBINATION OF CEREAL AND OTHER FLOURS, ENZYMES, AND SALTS FOR USE IN VARIOUS TYPES OF BAKED FOODS TO IMPROVE THE APPEARANCE AND PRIMARILY THE CRUST COLOR THEREOF.
Claims use since Feb. 3, 1941.

Ser. No. 452,436. SI-SI FOOD COMPANY, New York, N. Y. Filed Apr. 18, 1942.

"SI-SI"

FOR SALAD DRESSING.
Claims use since Mar. 25, 1942.

Ser. No. 453,461. ELIZABETH MONAGHAN INC., Detroit, Mich. Filed June 4, 1942.

Bite-o'-B_1

No claim is made to the notation "B_1" apart from the mark.
FOR BREAD.
Claims use since October, 1940.

Ser. No. 454,928. ERNEST LUCARELLI & CO., Canastota, N. Y. Filed Aug. 15, 1942.

FOR ONIONS IN THEIR NATURAL STATE.
Claims use since July 1, 1942.

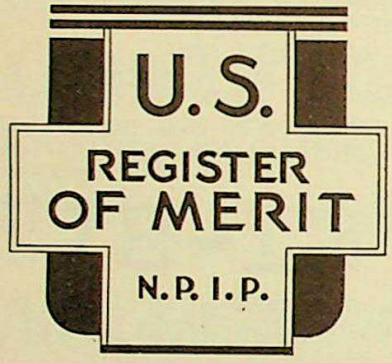
Ser. No. 455,035. UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. Filed Aug. 21, 1942. Under the act of February 20, 1905, as amended June 10, 1938.

No claim is made to the notation "Record of Performance" apart from the mark.

FOR LIVE POULTRY AND EGGS.

Claims use since Nov. 23, 1937.

Ser. No. 455,036. UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. Filed Aug. 21, 1942. Under the act of February 20, 1905, as amended June 10, 1938.



No claim is made to the notation "Register of Merit" apart from the mark.

FOR LIVE POULTRY AND EGGS.

Claims use since Nov. 23, 1937.

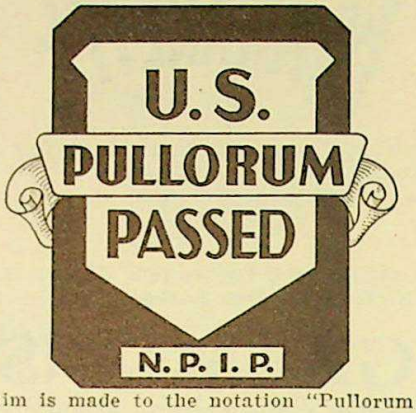
Ser. No. 455,037. UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. Filed Aug. 21, 1942. Under the act of February 20, 1905, as amended June 10, 1938.

No claim is made to the notation "Pullorum Tested" apart from the mark.

FOR LIVE POULTRY AND EGGS.

Claims use since Nov. 23, 1937.

Ser. No. 455,038. UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. Filed Aug. 21, 1942. Under the act of February 20, 1905, as amended June 10, 1938.

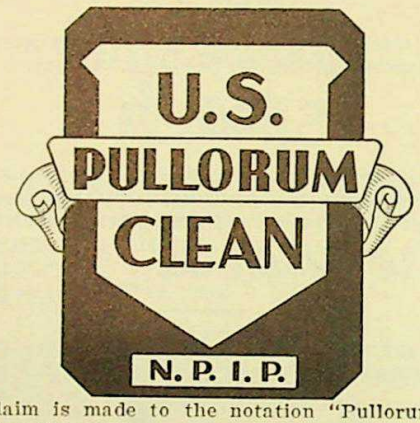


No claim is made to the notation "Pullorum Passed" apart from the mark.

FOR LIVE POULTRY AND EGGS.

Claims use since Nov. 23, 1937.

Ser. No. 455,039. UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. Filed Aug. 21, 1942. Under the act of February 20, 1905, as amended June 10, 1938.

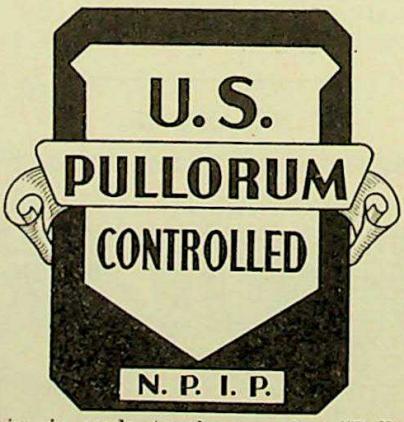


No claim is made to the notation "Pullorum Clean" apart from the mark.

FOR LIVE POULTRY AND EGGS.

Claims use since Nov. 23, 1937.

Ser. No. 455,040. UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. Filed Aug. 21, 1942. Under the act of February 20, 1905, as amended June 10, 1938.

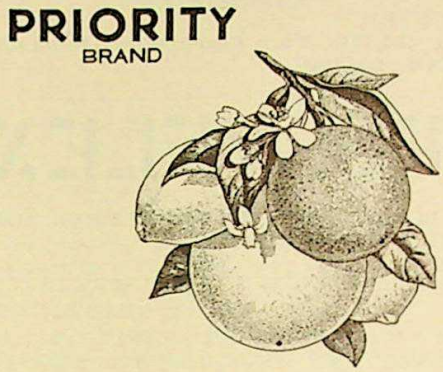


No claim is made to the notation "Pullorum Controlled" apart from the mark.

FOR LIVE POULTRY AND EGGS.

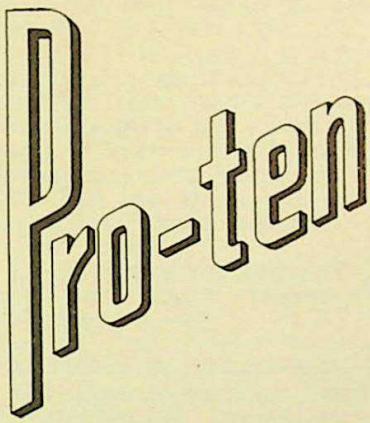
Claims use since Aug. 21, 1941.

Ser. No. 456,327. SOUTHERN CITRUS ASSOCIATION, Redlands, Calif. Filed Oct. 21, 1942.



No claim is made to the word "Brand" or to the representation of the fruit apart from the mark.
FOR FRESH CITRUS FRUITS.
Claims use since Sept. 18, 1942.

Ser. No. 456,618. THE WARFIELD COMPANY, Chicago, Ill. Filed Nov. 2, 1942.



FOR MEAT SAVER, AN ALL VEGETABLE PRODUCT COMPOSED OF A BLEND OF CEREALS AND SEASONING, THE PRINCIPAL PURPOSE OF WHICH IS TO MAKE MEAT RECIPES GO FURTHER BY MIXING THE PRODUCT WITH GROUND MEAT.
Claims use since Oct. 12, 1942.

Ser. No. 456,685. ESKIMO PIE CORPORATION, Bloomfield, N. J. Filed Nov. 7, 1942. Under the act of February 20, 1905, as amended June 10, 1938.

Applicant is the owner of trade-mark registration 237,264.
FOR ICE CREAM.
Claims use since Oct. 3, 1921.

Ser. No. 456,873. GOOCH FOOD PRODUCTS COMPANY, Lincoln, Nebr. Filed Nov. 17, 1942.

The picture is fanciful. No claim is made to the representation of the goods apart from the mark.
FOR ELBOW MACARONI, READY CUT SPAGHETTI, SHELL MACARONI, ALPHABETS AND SOUP RINGS, ALL OF WHICH ARE KNOWN AS MACARONI PRODUCTS.
Claims use since Oct. 26, 1942.

Ser. No. 457,037. HOPKINSVILLE MILLING CO., Hopkinsville, Ky. Filed Nov. 25, 1942.

Applicant is owner of trade-mark No. 177,572.
FOR WHEAT FLOUR.
Claims use since August, 1939.

Ser. No. 457,060. THE BORDEN COMPANY, New York, N. Y. Filed Nov. 26, 1942.

FOR CHEESE COCKTAIL SPREADS.
Claims use since July 14, 1941.

CLASS 47

WINES

Ser. No. 453,317. Bisceglia Brothers Wine Co., Fresno, and Reedley, Calif. Filed May 28, 1942.

WINEDALE

FOR WINES.
Claims use since Dec. 13, 1939.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 456,431. Plax Corporation, Hartford, Conn. Filed Oct. 26, 1942.

POLYFLEX

FOR PLASTIC COMPOSITION IN SHEET FORM.
Claims use since Oct. 7, 1942.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

FEBRUARY 2, 1943

399,786. HAND WROUGHT ALUMINUM ART GOODS AND GIFT WARES—NAMELY, ALUMINUM COASTERS, PLATES, TRAYS, BOWLS, PLATTERS, SERVERS, WALL MATCH BOX SAFES, AND KNOCKER BOWLS. EVERETT A. PALMER, doing business as Palmer-Smith, Grove City, Pa., assignor to Arthur J. Palmer, Jr., Grove City, Pa.
Filed March 15, 1938. Serial No. 404,089. PUBLISHED JANUARY 28, 1941. Class 13.

399,787. PORTABLE PHOTOGRAPHIC PRINTING MACHINE REPRODUCING BY CONTACT EXPOSURE WITHOUT LENSES, ETC. LUMA INCORPORATED, New York, N. Y.
Filed July 31, 1940. Serial No. 434,535. PUBLISHED NOVEMBER 24, 1942. Class 26.

399,788. MEN'S COATS, VESTS, TROUSERS, OVERCOATS, AND TOPCOATS. GOODMAN & SUSS CLOTHES CORPORATION, New York, N. Y.
Filed February 12, 1941. Serial No. 440,589. PUBLISHED MAY 5, 1942. Class 39.

399,789. PORTLAND CEMENT. LONE STAR CEMENT CORPORATION, New York, N. Y.
Filed March 26, 1941. Serial No. 441,972. PUBLISHED NOVEMBER 3, 1942. Class 12.

399,790. WHEAT FLOUR AND BREAKFAST CEREAL. FISHER FLOURING MILLS COMPANY, Seattle, Wash.
Filed April 30, 1941. Serial No. 443,121. PUBLISHED NOVEMBER 24, 1942. Class 46.

399,791. FABRICATED PLASTIC MATERIAL OF A PHENOL-FORMALDEHYDE-UREA TYPE. PLASTYLE VENEERS, INC., Chicago, Ill.
Filed May 12, 1941. Serial No. 443,513. PUBLISHED JULY 29, 1941. Class 1.

399,792. COMIC STRIP OR SECTION OF A PERIODICAL PUBLICATION. FAWCETT PUBLICATIONS, INC., Greenwich, Conn.
Filed June 25, 1941. Serial No. 444,825. PUBLISHED NOVEMBER 17, 1942. Class 38.

399,793. AUTOMOBILE HEATERS UTILIZING HEAT FROM THE ENGINE. HUDSON MOTOR CAR COMPANY, Detroit, Mich.
Filed July 5, 1941. Serial No. 445,096. PUBLISHED OCTOBER 27, 1942. Class 19.

399,794. TROUSERS. WILLIAM F. FRETZ & SON, Doylestown, Pa.
Filed August 1, 1941. Serial No. 445,845. PUBLISHED APRIL 7, 1942. Class 39.

399,795. PISTON EXPANDERS. ALVIN C. EDWARDS, doing business as Magic Cam Co., Cincinnati, Ohio.
Filed August 13, 1941. Serial No. 446,197. PUBLISHED NOVEMBER 24, 1942. Class 23.

399,796. FEATURE COLUMN IN NEWSPAPERS AND OTHER PUBLICATIONS. BOYCE DE GAW, Beverly Hills, Calif.
Filed August 30, 1941. Serial No. 446,692. PUBLISHED NOVEMBER 24, 1942. Class 38.

399,797. PHONOGRAPH NEEDLE. PETER GREY, Oakland, Calif.
Filed September 26, 1941. Serial No. 447,330. PUBLISHED NOVEMBER 24, 1942. Class 36.

399,798. FIBROUS INSULATING BOARD, PICTURE MOLD, BASE SCREED, BASE GROUND, CORNER BEAD, METALLIC ARCHES, BASEMENT SASH, AND INSULATING WOOL. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed October 18, 1941. Serial No. 447,921. PUBLISHED OCTOBER 20, 1942. Class 12.

399,799. HEAT EXCHANGERS CONSISTING OF BOILERS, CONDENSERS, FEED WATER AND FUEL OIL HEATERS, COOLERS, EVAPORATORS, STILLS, DISTILLERS AND INDUSTRIAL PRESSURE VESSELS. ZALLEA BROTHERS & JOHNSON, Wilmington, Del.
Filed October 25, 1941. Serial No. 448,125. PUBLISHED NOVEMBER 10, 1942. Class 23.

399,800. PLASTICIZER IN THE PRODUCTION OF MASONRY CEMENT AND IN THE MOLDING OF CEMENT BLOCKS TO PROMOTE EASY MOLDING AND ALSO TO IMPART WATER-REPELLENT CHARACTERISTICS DECREASING THE WATER ABSORPTION OF THE CEMENT BLOCKS. NATIONAL OIL PRODUCTS COMPANY, Harrison, N. J.
Filed October 31, 1941. Serial No. 448,297. PUBLISHED NOVEMBER 3, 1942. Class 12.

399,801. SALT PACKED IN BULK AND PRIMARILY USED AS OR AN INGREDIENT FOR ANIMAL FEEDS. MICHIGAN CHEMICAL CORPORATION, doing business as Michigan Salt Company, St. Louis, Mich.
Filed November 3, 1941. Serial No. 448,367. PUBLISHED NOVEMBER 24, 1942. Class 46.

399,802. COMPOSITION (IN THE NATURE OF VARNISH) FOR APPLICATION TO WOOD, CORK, LINOLEUM, AND SIMILAR POROUS SURFACES TO FILL UP THE PORES THEREIN, FLOOR DRESSING, AND FURNITURE DRESSING. SIMMONDS PRODUCTS LIMITED, Brentford, England.
Filed November 19, 1941. Serial No. 448,769. PUBLISHED NOVEMBER 24, 1942. Class 16.

399,803. POWER EXCAVATING SHOVELS, EXCAVATING PULL SHOVELS, CRANES, PAVEMENT RAISING MACHINES, DRAGLINE EXCAVATORS, FINISHING MACHINES FOR PAVEMENTS, CEMENTITIOUS MIXTURE AND CONCRETE PUMPING MACHINES, DIRT SCRAPERS, BITUMINOUS MIXERS, PLASTER MIXERS, DIRT GRADERS, MOTOR PROPELLED DIRT HAULING VEHICLES. KOEHRING COMPANY, Milwaukee, Wis.
Filed December 20, 1941. Serial No. 449,646. PUBLISHED NOVEMBER 10, 1942. Class 23.

399,804. ASPHALT, ASPHALT COMPOSITIONS, ASPHALT EMULSIONS. AMERICAN BITUMULS COMPANY, Wilmington, Del., and San Francisco, Calif.
Filed December 22, 1941. Serial No. 449,659. PUBLISHED NOVEMBER 24, 1942. Class 12.

399,805. GLASS COFFEE BREWERS. HILL-SHAW COMPANY, Chicago, Ill.
Filed December 24, 1941. Serial No. 449,736. PUBLISHED MARCH 3, 1942. Class 13.

399,806. ACID AND ALKALI PROOF COTTON TEXTILE FABRICS SOLD IN THE FORM OF TUBING, ROLLS, OR BALES. WILLIAM W. STANLEY CO., INC., New York, N. Y.
Filed January 8, 1942. Serial No. 450,080. PUBLISHED NOVEMBER 24, 1942. Class 50.

399,807. INDUSTRIAL MACHINERY — NAMELY, CRANES, DERRICKS, LOGGING MACHINERY AND RIGGING, PULLEY BLOCKS, MINING MACHINERY, ETC. WASHINGTON IRON WORKS, Seattle, Wash.
Filed January 19, 1942. Serial No. 450,324. PUBLISHED NOVEMBER 24, 1942. Class 23.

399,808. NOZZLES, SUCTION PROPORTIONERS, AND PRESSURE PROPORTIONERS FOR USE IN THE PRODUCTION OF FOAM SUITABLE FOR THE EXTINGUISHMENT OF FIRES. National Foam System, Inc., Philadelphia, Pa.

Filed January 27, 1942. Serial No. 450,514. PUBLISHED NOVEMBER 24, 1942. Class 23.

399,809. SECTION OF A PERIODICAL PUBLICATION, PUBLISHED MONTHLY. The Aeronautical Digest Publishing Corporation, New York, N. Y.

Filed January 29, 1942. Serial No. 450,559. PUBLISHED NOVEMBER 10, 1942. Class 38.

399,810. GAMES INCLUDING BOARDS AND MOVABLE PIECES AND CARDS, AND TOYS—NAMELY, BUILDING BLOCKS, BEADS AND TABLE TENNIS BALLS. Milton Bradley Company, Springfield, Mass.

Filed February 9, 1942. Serial No. 450,845. PUBLISHED NOVEMBER 24, 1942. Class 22.

399,811. WOMEN'S AND MEN'S CLOTHING—NAMELY, WOMEN'S UTILITY DRESSES, CULOTTE DRESSES, CAPS, HATS, SHIRTS, COVERALLS, OVERALLS, JUMPERALLS, COATS, SLACKS, AND SHORTS, AND MEN'S OVERALLS. Harold C. Myers, doing business as E. B. Myers Co., Los Angeles, Calif.

Filed February 10, 1942. Serial No. 450,879. PUBLISHED JUNE 9, 1942. Class 39.

399,812. GLASS RODS, GLASS TUBING, AND GLASS CONTAINERS—NAMELY, JARS, DISHES, AND BOTTLES, INCLUDING AMPOULES AND OTHER VIALS, AND FLASKS. Kimble Glass Company, Vineland, N. J.

Filed March 6, 1942. Serial No. 451,442. PUBLISHED OCTOBER 20, 1942. Class 33.

399,813. GLASS RODS, GLASS TUBING, AND GLASS CONTAINERS—NAMELY, JARS, DISHES, AND BOTTLES, INCLUDING AMPOULES AND OTHER VIALS, AND FLASKS. Kimble Glass Company, Vineland, N. J.

Filed March 6, 1942. Serial No. 451,445. PUBLISHED OCTOBER 20, 1942. Class 33.

399,814. THERMAL INSULATION IN THE FORM OF CELLULAR BLOCKS, PANELS, AND SHAPES OF ASBESTOS PAPER. Johns-Manville Corporation, New York, N. Y.

Filed March 12, 1942. Serial No. 451,568. PUBLISHED NOVEMBER 10, 1942. Class 12.

399,815. TABLES, DESKS, CABINETS FOR BRIC-A-BRAC AND BOOKS, CHAIRS, SOFAS, CANDLE STANDS, HANGING SHELVES, MIRRORS, STOOLS, BEDS, SIDEBOARDS, GARDEN BENCHES, CHESTS, HIGHBOYS AND LOWBOYS. Williamsburg Restoration, Inc., Williamsburg, Va.

Filed March 14, 1942. Serial No. 451,635. PUBLISHED NOVEMBER 24, 1942. Class 32.

399,816. DRINKING GLASSES. Beverly Osborne, Oklahoma City, Okla.

Filed March 19, 1942. Serial No. 451,752. PUBLISHED OCTOBER 27, 1942. Class 33.

399,817. TARGETS FOR PISTOLS AND RIFLES. Annie Oakley Company, Fort Wayne, Ind.

Filed April 10, 1942. Serial No. 452,273. PUBLISHED NOVEMBER 24, 1942. Class 22.

399,818. LIGNO-CELLULOSE SHEETS AND BOARDS FOR CONSTRUCTING REFRIGERATORS, CABINETS, AND OTHER CONSTRUCTION PURPOSES. The Coolerator Company, Duluth, Minn.

Filed April 13, 1942. Serial No. 452,307. PUBLISHED NOVEMBER 3, 1942. Class 12.

399,819. MISSES' AND GIRLS' COMBINED BLOUSE AND SLACKS. Teen Frocks, Inc., New York, N. Y.

Filed April 15, 1942. Serial No. 452,365. PUBLISHED JUNE 16, 1942. Class 39.

399,820. SEMILIQUID CLEANER FOR FLOORS, WALLS, AND THE LIKE. Anthony Di Frances, Milwaukee, Wis.

Filed April 18, 1942. Serial No. 452,417. PUBLISHED NOVEMBER 24, 1942. Class 4.

399,821. ELECTRICAL INSULATION MATERIAL FOR USE IN SLOT INSULATION, ARMATURES, STATORS, TRANSFORMERS, AND SIMILAR ELECTRICAL APPARATUS. New Jersey Wood Finishing Company, Woodbridge, N. J.

Filed April 20, 1942. Serial No. 452,455. PUBLISHED NOVEMBER 24, 1942. Class 21.

399,822. ROCK WOOL. Holmes-Hemphill Company, Minneapolis, Minn.

Filed April 23, 1942. Serial No. 452,532. PUBLISHED NOVEMBER 10, 1942. Class 12.

399,823. WALL AND DOOR RACKS FOR TIES, BELTS, COLLAR BUTTONS, AND STUDS. Midwest Manufacturing & Engineering Corp., Boston, Mass.

Filed May 9, 1942. Serial No. 452,911. PUBLISHED NOVEMBER 17, 1942. Class 13.

399,824. AUTOMATIC STOKERS ESPECIALLY ADAPTED FOR HOUSEHOLDS, APARTMENTS, BUILDINGS, AND HOTELS. Sun-Fire Stoker Corporation, New Albany, Ind.

Filed May 22, 1942. Serial No. 453,188. PUBLISHED NOVEMBER 17, 1942. Class 34.

399,825. DRIED APRICOTS, CANNED GREEN BEANS, CANNED CORN ON THE COB, CANNED GRAPEFRUIT AND PINEAPPLE JUICE, ETC. Plee-Zing, Inc., Chicago, Ill.

Filed May 23, 1942. Serial No. 453,216. PUBLISHED NOVEMBER 24, 1942. Class 46.

399,826. SOAPS. The J. B. Williams Company, Glastonbury, Conn.

Filed May 29, 1942. Serial No. 453,375. PUBLISHED NOVEMBER 24, 1942. Class 4.

399,827. STOVES, RANGES, AND OVENS, TO BURN LIQUID AND SOLID FUELS. F. S. Lang Manufacturing Company, Seattle, Wash.

Filed May 30, 1942. Serial No. 453,386. PUBLISHED NOVEMBER 17, 1942. Class 34.

399,828. STOVES, RANGES, AND OVENS, TO BURN LIQUID AND SOLID FUELS. F. S. Lang Manufacturing Company, Seattle, Wash.

Filed May 30, 1942. Serial No. 453,387. PUBLISHED NOVEMBER 17, 1942. Class 34.

399,829. TOOLS AND FOR MACHINERY—NAMELY, ALL KINDS AND TYPES OF THE FOLLOWING GOODS: WRENCHES, WRENCH SETS, WRENCH SOCKETS, AND CHAIN PIPE WRENCHES, ETC. The Billings & Spencer Company, Hartford, Conn.

Filed June 3, 1942. Serial No. 453,429. PUBLISHED NOVEMBER 10, 1942. Class 23.

399,830. HEAT INSULATING BUILDING MATERIALS—NAMELY, INSULATING ROOF UNITS. The Celotex Corporation, Chicago, Ill.

Filed June 3, 1942. Serial No. 453,431. PUBLISHED OCTOBER 20, 1942. Class 12.

399,831. VACUUM PUMPS AND PARTS THEREOF, STILLS AND PARTS THEREOF, ETC. Distillation Products, Inc., Rochester, N. Y.

Filed June 3, 1942. Serial No. 453,435. PUBLISHED NOVEMBER 17, 1942. Class 23.

399,832. BUTTERSCOTCH FLAVORING FOR BEVERAGES AND ICE CREAM, BUTTERSCOTCH FUDGE BASE FOR ICING, ETC. Wiltz W. Wagner, doing business as Chas. P. Wagner & Bro., New Orleans, La.

Filed June 8, 1942. Serial No. 453,561. PUBLISHED NOVEMBER 24, 1942. Class 46.

399,833. PREPARED SHINGLES. Ford Roofing Products Company, Chicago, Ill.

Filed June 12, 1942. Serial No. 453,617. PUBLISHED NOVEMBER 3, 1942. Class 12.

399,834. HOME ECONOMICS BULLETINS, MENU CARDS, RECIPES AND RECIPE CARDS, PAMPHLETS, AND VARIOUS OTHER PRINTED MATTER RELATING TO THE ADVERTISING, MERCHANDISING, PREPARATION AND USE OF FOOD AND FOOD PRODUCTS. National Association of Food Chains, Wilmington, Del., and Washington, D. C.
Filed July 1, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 453,990. PUBLISHED NOVEMBER 17, 1942. Class 38.

399,835. OVERHEAD OIL FIRED FURNACE. Sawyer-Hare Furnace Company, Detroit, Mich.
Filed July 2, 1942. Serial No. 454,017. PUBLISHED OCTOBER 27, 1942. Class 34.

399,836. LIQUID LEATHER DRESSING. Roswell C. Barbour, doing business as the Barbour Company, St. Louis, Mo.
Filed July 8, 1942. Serial No. 454,097. PUBLISHED NOVEMBER 24, 1942. Class 4.

399,837. VALVES AND PIPE FITTINGS—NAMELY, STEEL GATE VALVES, GLOBE VALVES, ANGLE VALVES, CROSS VALVES, SAFETY VALVES, RELIEF VALVES, ETC. Crane Co., Chicago, Ill.
Filed July 8, 1942. Serial No. 454,099. PUBLISHED NOVEMBER 10, 1942. Class 13.

399,838. FUEL BURNERS, BOILERS, AIR CONDITIONING UNITS, AND ADJUSTABLE IRIS ORIFICES FOR USE IN THE CONTROL OF FLUID FLOW. York Oil Burner Co., Inc., York, Pa.
Filed July 10, 1942. Serial No. 454,162. PUBLISHED NOVEMBER 24, 1942. Class 34.

399,839. MACHINES FOR GRINDING, CRACKING OR OTHERWISE TREATING COFFEE AND OTHER MATERIALS. Jabez Burns & Sons, Inc., New York, N. Y.
Filed July 16, 1942. Serial No. 454,246. PUBLISHED NOVEMBER 24, 1942. Class 23.

399,840. TABLE CARVING KNIVES AND TABLE CARVING SETS. W. R. Case and Son's Cutlery Company, Bradford, Pa.
Filed July 21, 1942. Serial No. 454,356. PUBLISHED NOVEMBER 17, 1942. Class 23.

399,841. TABLE CARVING KNIVES AND TABLE CARVING SETS. W. R. Case and Son's Cutlery Company, Bradford, Pa.
Filed July 21, 1942. Serial No. 454,358. PUBLISHED NOVEMBER 17, 1942. Class 23.

399,842. TABLE CARVING KNIVES AND TABLE CARVING SETS. W. R. Case and Son's Cutlery Company, Bradford, Pa.
Filed July 21, 1942. Serial No. 454,359. PUBLISHED NOVEMBER 17, 1942. Class 23.

399,843. TABLE CARVING KNIVES AND TABLE CARVING SETS. W. R. Case and Son's Cutlery Company, Bradford, Pa.
Filed July 21, 1942. Serial No. 454,360. PUBLISHED NOVEMBER 17, 1942. Class 23.

399,844. GARMENT BAGS AND BLANKET BAGS. Fabric Products Manufacturing Company, Chicago, Ill.
Filed July 23, 1942. Serial No. 454,445. PUBLISHED NOVEMBER 24, 1942. Class 2.

399,845. MEN'S AND BOYS' SHIRTS. Pepperell Manufacturing Company, Boston, Mass.
Filed July 23, 1942. Serial No. 454,461. PUBLISHED NOVEMBER 24, 1942. Class 39.

399,846. MILLING MACHINES. Plan-O-Mill Corporation, Royal Oak, Mich.
Filed July 27, 1942. Serial No. 454,541. PUBLISHED NOVEMBER 17, 1942. Class 23.

399,847. TRAY SIPHONS, VARIABLE OUTLET DRAIN CONTROLS, DRAIN STOPPER AND ADJUSTABLE DRAINAGE CONTROL COMBINATIONS, AND HOSE CONNECTIONS HAVING SUCTION CUPS. Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y.
Filed July 31, 1942. Serial No. 454,631. PUBLISHED NOVEMBER 17, 1942. Class 13.

399,848. AIRPLANE SEATS FORMED PRINCIPALLY FROM PLASTIC MATERIAL AND COTTON. King Plastics Corporation, Denver, Colo.
Filed August 1, 1942. Serial No. 454,659. PUBLISHED NOVEMBER 17, 1942. Class 19.

399,849. MACHINES USED IN INDUSTRIAL ESTABLISHMENTS (SUCH AS PAINT SPRAYING, CARBON GRINDING, ETC.), TO WASH AND CLEANSE THE AIR THROUGH COLLECTING PARTICLES OF DUST, ETC., WHICH PARTICLES, ETC., MAY BE RECLAIMED FOR FURTHER USE. Mayer Manufacturing Corporation, Brooklyn, N. Y.
Filed August 1, 1942. Serial No. 454,662. PUBLISHED NOVEMBER 10, 1942. Class 34.

399,850. GLASS DISHES. Newland, Schneeloch & Piek, Inc., New York, N. Y.
Filed August 1, 1942. Serial No. 454,666. PUBLISHED NOVEMBER 24, 1942. Class 33.

399,851. COAL AND WOOD RANGES. Sears, Roebuck and Co., Chicago, Ill.
Filed August 3, 1942. Serial No. 454,700. PUBLISHED NOVEMBER 17, 1942. Class 34.

399,852. PREFABRICATED STRUCTURES—NAMELY, PORTABLE BUILDINGS AND PARTS THEREFOR. Texas Prefabricated House and Tent Co., Dallas, Tex.
Filed August 3, 1942. Serial No. 454,705. PUBLISHED OCTOBER 27, 1942. Class 12.

399,853. FRICTION TAPE AND FOR SPLICING COMPOUND USED FOR ELECTRICAL PURPOSES. Charles Raymond Ahrens, New York, N. Y.
Filed August 7, 1942. Serial No. 454,773. PUBLISHED NOVEMBER 24, 1942. Class 21.

399,854. FOOD PRODUCTS—NAMELY, FRESH DECIDUOUS FRUITS, FRESH CITRUS FRUITS, FRESH BERRIES, AND FRESH VEGETABLES. Fine Foods, Inc., Seattle, Wash.
Filed August 8, 1942. Serial No. 454,801. PUBLISHED NOVEMBER 24, 1942. Class 46.

399,855. SERIES OF BOOKS PUBLISHED FROM TIME TO TIME. McLoughlin Bros., Inc., Springfield, Mass.
Filed August 11, 1942. Serial No. 454,854. PUBLISHED NOVEMBER 24, 1942. Class 38.

399,856. TRUCK CASTERS. United States Tube & Foundry Co., Inc., Brooklyn, N. Y.
Filed August 11, 1942. Serial No. 454,860. PUBLISHED OCTOBER 27, 1942. Class 19.

399,857. HEATING EQUIPMENT IN WHICH WOOD AND/OR COAL IS USED FOR FUEL—NAMELY, COOKING STOVES, RANGES, SPACE-HEATING STOVES, AND FURNACES, PARTS OF SUCH EQUIPMENT. The Favorite Stove Company, Piqua, Ohio.
Filed August 13, 1942. Serial No. 454,886. PUBLISHED NOVEMBER 17, 1942. Class 34.

399,858. PUBLICATION PUBLISHED PERIODICALLY. Botany Worsted Mills, Passaic, N. J.
Filed August 14, 1942. Serial No. 454,904. PUBLISHED NOVEMBER 17, 1942. Class 38.

399,859. ROLLED OATS. The Quaker Oats Company, Chicago, Ill.
Filed August 17, 1942. Serial No. 454,949. PUBLISHED NOVEMBER 24, 1942. Class 46.

399,860. BILL FOLDS. Seco Leather Products Company, West New York, N. J.
Filed August 19, 1942. Serial No. 454,991. PUBLISHED NOVEMBER 24, 1942. Class 3.

399,861. BILL FOLDS. Seco Leather Products Company, West New York, N. J.
Filed August 19, 1942. Serial No. 454,993. PUBLISHED NOVEMBER 24, 1942. Class 3.

399,862. BILL FOLDS. Seco Leather Products Company, West New York, N. J.
Filed August 19, 1942. Serial No. 454,994. PUBLISHED NOVEMBER 24, 1942. Class 3.

399,863. PORTABLE SHOWER CABINETS. American Shower Cabinet Co., Inc., New York, N. Y.
Filed August 21, 1942. Serial No. 455,013. PUBLISHED OCTOBER 27, 1942. Class 13.

399,864. WATCHES. Pierce Watch Company, Inc., New York, N. Y.
Filed August 21, 1942. Serial No. 455,030. PUBLISHED NOVEMBER 24, 1942. Class 27.

399,865. PERIODICAL. Don Ashby, doing business as Spokesman Press, Grundy Center, Iowa.
Filed August 24, 1942. Serial No. 455,063. PUBLISHED NOVEMBER 17, 1942. Class 38.

399,866. ROCK WOOL. National Gypsum Company, Buffalo, N. Y.
Filed August 26, 1942. Serial No. 455,122. PUBLISHED OCTOBER 27, 1942. Class 12.

399,867. ROLLING DEVICE FOR THE APPLICATION OF PAINTS AND KINDRED PRODUCTS. The Sherwin-Williams Company, Cleveland, Ohio.
Filed August 26, 1942. Serial No. 455,125. PUBLISHED NOVEMBER 10, 1942. Class 23.

399,868. HYDRAULIC BRAKE BOOSTERS AND PARTS THEREOF. Vickers Manufacturing Corporation, Buffalo, N. Y., assignor to The Timken-Detroit Axle Company, Detroit, Mich.
Filed August 26, 1942. Serial No. 455,126. PUBLISHED NOVEMBER 3, 1942. Class 19.

399,869. TOOLS FOR MACHINING OPERATIONS INCLUDING TURNING, FACING, DRILLING, BORING, GROOVING, REAMING, SCRAPING, SHEARING AND CUT-OFF TOOLS AND THE LIKE, DRAWING AND EXTRUSION DIES, BUSHINGS, GUIDE RINGS, PARTS FOR USE ON MACHINERY AND OTHER DEVICES WHERE A WEAR RESISTANT AREA IS NEEDED AND WHEEL DRESSERS. Carboloy Company, Inc., Van Dyke, Mich.
Filed August 28, 1942. Serial No. 455,152. PUBLISHED NOVEMBER 24, 1942. Class 23.

399,870. MAGAZINE. Detective Comics, Inc., New York, N. Y.
Filed August 28, 1942. Serial No. 455,153. PUBLISHED NOVEMBER 17, 1942. Class 38.

399,871. WOMEN'S AND GIRLS' SWEATERS AND COATS. Renart Sportswear Corp., New York, N. Y.
Filed August 28, 1942. Serial No. 455,166. PUBLISHED NOVEMBER 17, 1942. Class 39.

399,872. HOSIERY. Burlington Mills Corporation, Greensboro, N. C.
Filed August 29, 1942. Serial No. 455,170. PUBLISHED NOVEMBER 24, 1942. Class 39.

399,873. BASIN, TUB, SINK, AND TRAY STOPPERS. Columbus Plastic Products Inc., Columbus, Ohio.
Filed August 29, 1942. Serial No. 455,173. PUBLISHED OCTOBER 27, 1942. Class 13.

399,874. WOMEN'S AND MISSES' DRESSES. Constantine Dress Company, Boston, Mass.
Filed August 29, 1942. Serial No. 455,176. PUBLISHED NOVEMBER 17, 1942. Class 39.

399,875. ELECTRICALLY NON-CONDUCTIVE SHOP AND MILL TRUCK WHEELS MADE OF MACERATED MATERIAL. The Formica Insulation Company, Cincinnati, Ohio.
Filed August 29, 1942. Serial No. 455,180. PUBLISHED OCTOBER 20, 1942. Class 19.

399,876. FASTENING DEVICES IN THE FORM OF A COMBINED SCREW AND RIVET. Emmet M. Green, Los Angeles, Calif.
Filed August 29, 1942. Serial No. 455,181. PUBLISHED OCTOBER 27, 1942. Class 13.

399,877. VEHICLE WHEELS AND TRUCK CASTER WHEELS OF COMPOSITION MATERIAL. The American Brake Shoe and Foundry Company, New York, N. Y.
Filed August 31, 1942. Serial No. 455,197. PUBLISHED NOVEMBER 3, 1942. Class 19.

399,878. WOMEN'S AND GIRLS' DRESSES. Associated Lerner Shops of America, Inc., New York, N. Y.
Filed August 31, 1942. Serial No. 455,199. PUBLISHED NOVEMBER 17, 1942. Class 39.

399,879. PRINTED ORCHESTRATION SETS. Select-A-Key Company, San Francisco, Calif.
Filed August 31, 1942. Serial No. 455,211. PUBLISHED NOVEMBER 24, 1942. Class 38.

399,880. STOKERS, INCINERATORS, BLOWERS, AND AIR CONDITIONERS. Schwab Furnace Company, Milwaukee, Wis.
Filed September 3, 1942. Serial No. 455,313. PUBLISHED NOVEMBER 24, 1942. Class 34.

399,881. MATERIAL (IN MASTIC FORM) FOR PATCHING INDUSTRIAL FLOORS, TRUCKING LANES, ETC., OF CONCRETE, MASTIC OR WOOD. A. F. van Wolf, doing business as Kedmont Manufacturing & Waterproofing Co., Chicago, Ill.
Filed September 3, 1942. Serial No. 455,317. PUBLISHED NOVEMBER 10, 1942. Class 12.

399,882. EQUIPMENT FOR VENTILATING SYSTEMS—NAMELY, VENTILATING COWLS, MUSHROOM VENTILATOR HEADS, GOOSENECK VENTILATOR HEADS; EXHAUST TERMINALS, SUPPLY TERMINALS; GRILLES, REGISTERS, AND DIFFUSING OUTLETS, FOR SUPPLY AND EXHAUST OF AIR; ETC. Harry W. Fiedler, doing business as Air Conditioning Utilities Company, New York, N. Y.
Filed September 5, 1942. Serial No. 455,369. PUBLISHED NOVEMBER 10, 1942. Class 34.

399,883. STEAM TRAPS. The V. D. Anderson Company, Cleveland, Ohio.
Filed September 7, 1942. Serial No. 455,387. PUBLISHED NOVEMBER 24, 1942. Class 13.

399,884. HINGES FOR BOXES. Harry D. Greenman, doing business as Maximlok Company, Brooklyn, N. Y.
Filed September 10, 1942. Serial No. 455,453. PUBLISHED NOVEMBER 24, 1942. Class 13.

399,885. SPECTACLES AND EYE-GLASSES. Harry Stolper, Inc., New York, N. Y.
Filed September 10, 1942. Serial No. 455,461. PUBLISHED NOVEMBER 24, 1942. Class 26.

399,886. PAPER TOWELS. A. P. W. Paper Company, Inc., Albany, N. Y.
Filed September 11, 1942. Serial No. 455,466. PUBLISHED NOVEMBER 24, 1942. Class 37.

399,887. BATHROOM CLEANSING TISSUE, PAPER TOWELS, TOILET PAPER, AND FACIAL TISSUE. Crown Zellerbach Corporation, San Francisco, Calif.
Filed September 11, 1942. Serial No. 455,475. PUBLISHED NOVEMBER 24, 1942. Class 37.

399,888. BICYCLES. Arnold, Schwinn & Co., Chicago, Ill.
Filed September 12, 1942. Serial No. 455,496. PUBLISHED NOVEMBER 10, 1942. Class 19.

399,889. CRANES. Whiting Corporation, Harvey, Ill.
Filed September 12, 1942. Serial No. 455,507. PUBLISHED NOVEMBER 24, 1942. Class 23.

399,890. SEA ANCHORS, GASOLINE AND OIL FILLER CAPS, SHEET BLOCKS, ETC. DURKEE MARINE PRODUCTS CORPORATION, Grasmere, Staten Island, N. Y.
Filed September 15, 1942. Serial No. 355,530. PUBLISHED NOVEMBER 10, 1942. Class 19.

399,891. YACHT BLOCKS, BULLET BLOCKS, SHACKLE BLOCKS, WIRE ROPE PULLEYS, SCREWEYE BLOCKS, TACKLE BLOCKS, ETC. DURKEE MARINE PRODUCTS CORPORATION, Grasmere, Staten Island, N. Y.
Filed September 15, 1942. Serial No. 455,532. PUBLISHED NOVEMBER 24, 1942. Class 23.

399,892. INCANDESCENT ELECTRIC LIGHT BULBS. ELRAM LAMP WORKS, Hoboken, N. J.
Filed September 15, 1942. Serial No. 455,533. PUBLISHED NOVEMBER 24, 1942. Class 21.

399,893. CIGARS. WAITT & BOND, INC., Newark, N. J.
Filed September 15, 1942. Serial No. 455,548. PUBLISHED NOVEMBER 24, 1942. Class 17.

399,894. TOBACCO PIPES. C. B. WEBER INC., Jersey City, N. J.
Filed September 15, 1942. Serial No. 455,549. PUBLISHED NOVEMBER 24, 1942. Class 8.

399,895. COATS FOR WOMEN, MISSES, AND CHILDREN. NEW YORK GIRL COAT CO., INC., New York, N. Y.
Filed September 16, 1942. Serial No. 455,572. PUBLISHED NOVEMBER 17, 1942. Class 39.

399,896. AUTOMOTIVE, INDUSTRIAL, AND MARINE DIESEL ENGINES. ROGERS DIESEL AND AIRCRAFT CORPORATION, New York, N. Y.
Filed September 16, 1942. Serial No. 455,574. PUBLISHED NOVEMBER 17, 1942. Class 23.

399,897. MEN'S AND BOYS' TROUSERS. H. SIEGFRIED & SONS, INC., St. Louis, Mo.
Filed September 17, 1942. Serial No. 455,602. PUBLISHED NOVEMBER 17, 1942. Class 39.

399,898. TRACTOR GRIP LUGS. ALLIED STEEL PRODUCTS, INC., Cleveland, Ohio.
Filed September 19, 1942. Serial No. 455,619. PUBLISHED NOVEMBER 24, 1942. Class 23.

399,899. EYE-GLASS AND SPECTACLE FRAMES AND PARTS THEREFOR, INCLUDING NOSE-PIECES, TEMPLES, AND THE LIKE, OF METAL, SHELL, AND VARIOUS PLASTIC COMPOSITIONS. ALEXANDER KONO, doing business as The Kono Manufacturing Company, Woodside, N. Y.
Filed September 19, 1942. Serial No. 455,626. PUBLISHED NOVEMBER 24, 1942. Class 26.

399,900. HOPS. J. SONNENSCHEIN HOP CO., INC., New York, N. Y.
Filed September 21, 1942. Serial No. 455,677. PUBLISHED NOVEMBER 24, 1942. Class 1.

399,901. SOUP MIX. ST. LOUIS MACARONI MFG. CO., St. Louis, Mo.
Filed September 21, 1942. Serial No. 455,682. PUBLISHED NOVEMBER 24, 1942. Class 46.

399,902. WOMEN'S SWEATERS. SUPREME KNITWEAR CO., St. Louis, Mo.
Filed September 21, 1942. Serial No. 455,684. PUBLISHED NOVEMBER 24, 1942. Class 39.

399,903. TABLE BOARD GAME. HASKELITE MANUFACTURING CORPORATION, Chicago, Ill.
Filed September 22, 1942. Serial No. 455,692. PUBLISHED NOVEMBER 24, 1942. Class 22.

399,904. APPARATUS FOR MEASURING HEARING. SONOTONE CORPORATION, Elmsford, N. Y.
Filed September 23, 1942. Serial No. 455,713. PUBLISHED NOVEMBER 24, 1942. Class 26.

399,905. FOOT COVERING TO BE WORN INSIDE THE SHOE WITHOUT STOCKINGS. UNITED HOSIERY MILLS CORPORATION, Chattanooga, Tenn.
Filed September 25, 1942. Serial No. 455,772. PUBLISHED NOVEMBER 24, 1942. Class 39.

399,906. GAMES OF SKILL AND AMUSEMENT PLAYED WITH MOVABLE PIECES, ETC. CHARLES H. REED, Cambridge, Mass.
Filed September 28, 1942. Serial No. 455,828. PUBLISHED NOVEMBER 24, 1942. Class 22.

399,907. CANE AND CORN SYRUP. ALABAMA-GEORGIA SYRUP COMPANY, Montgomery, Ala.
Filed October 3, 1942. Serial No. 455,943. PUBLISHED NOVEMBER 24, 1942. Class 46.

399,908. MATTRESSES. NATIONAL MATTRESS COMPANY, Huntington, W. Va.
Filed October 7, 1942. Serial No. 456,024. PUBLISHED NOVEMBER 24, 1942. Class 32.

399,909. FRESH VEGETABLES. LEWIS TERVEN, Salinas, Calif.
Filed October 12, 1942. Serial No. 456,158. PUBLISHED NOVEMBER 24, 1942. Class 46.

399,910. COMIC DRAWINGS PUBLISHED IN A SERIES IN DAILY AND SUNDAY NEWSPAPERS. UNITED FEATURE SYNDICATE, INC., New York, N. Y.
Filed October 12, 1942. Serial No. 456,159. PUBLISHED NOVEMBER 24, 1942. Class 38.

399,911. COMIC DRAWINGS PUBLISHED IN A SERIES IN DAILY AND SUNDAY NEWSPAPERS. UNITED FEATURE SYNDICATE, INC., New York, N. Y.
Filed October 12, 1942. Serial No. 456,160. PUBLISHED NOVEMBER 24, 1942. Class 38.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

399,912. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE BREWER-TITCHENER CORPORATION, Cortland, N. Y. Filed Mar. 25, 1941. Serial No. 441,901.

Super Board

FOR FOLDABLE IRONING TABLES.
Claims use since Feb. 20, 1941.

399,913. (CLASS 31. FILTERS AND REFRIGERATORS.) UNITED STATES RUBBER COMPANY, New York, N. Y. Filed Mar. 25, 1941. Serial No. 441,932.

MULTIPORE

FOR POROUS RUBBER MATERIAL USEFUL AS A FILTERING MEDIUM IN STRAINERS, CENTRIFUGAL BASKETS, GAS DIFFUSING MEDIUM IN ORE FLOTATION CELLS, PNEUMATIC TABLE GRAIN AND ORE SEPARATORS, AND IN SORTING AND CLASSIFYING APPARATUS.
Claims use since Mar. 13, 1941.

399,914. (CLASS 38. PRINTS AND PUBLICATIONS.) Max C. Gaines, New York, N. Y. Filed Nov. 22, 1941. Serial No. 448,828.

COMIC Digest

FOR A MAGAZINE PUBLISHED PERIODICALLY.
Claims use since Nov. 3, 1941.

399,915. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) Duotone Company, Inc., New York, N. Y. Filed Dec. 13, 1941. Serial No. 449,449.

FILTER POINT

FOR PHONOGRAPH NEEDLES.
Claims use since Nov. 6, 1940.

399,916. (CLASS 39. CLOTHING.) Messing Knitwear, Inc., New York, N. Y. Filed Mar. 21, 1942. Serial No. 451,822.

THE Mademoiselle
MESSING KNITWEAR · INC · N.Y.

FOR WOMEN'S CLOTHING—NAMELY, DRESSES, SKIRTS, SLACKS, SWEATERS, BATHING SUITS, JACKETS, AND BEACH ROBES.
Claims use since Sept. 1, 1941.

399,917. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Dexter Woolen Corporation, New York, N. Y. Filed June 3, 1942. Serial No. 453,434.

DEXTER
NE PLUS ULTRA
WOOLEN CORP.

FOR TEXTILE FABRIC PIECE GOODS MADE OF WOOL OR WOOL MIXED WITH RAYON, OR COTTON.
Claims use since Mar. 1, 1941.

399,918. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Aircraft Tools, Inc., Los Angeles, Calif. Filed July 20, 1942. Serial No. 454,321.

Aircraft TOOLS INC.

FOR COUNTERSINKS, BACK SPOTFACERS, RIVET SINKS, RIVET SETS, SWIVEL DIMPLING TOOLS, GOOSENECK DIMPLING SETS, SWIVEL TYPE FLUSH SETS, HAND RIVET SQUEEZERS, HAND RIVET SQUEEZER SETS, FLEXIBLE SHAFT ANGLE DRILLS, ANGLE DRILLS, ANGLE ATTACHMENTS, DRILL ADAPTERS, FLEXIBLE DRILLS, WRENCHES, HOLE SAWS, DUPLICATING PUNCHES, SHEET HOLDERS, CABLE SPLICERS, CHIP CHASER, HOOK SCRAPERS AND BUCKING BARS.
Claims use since July 1, 1940.

399,919. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) P. R. Mallory & Co. Inc., Indianapolis, Ind. Filed Oct. 3, 1942. Serial No. 455,949.

MALLORY

FOR NONFERROUS METALS, NONFERROUS ALLOYS, AND NONFERROUS SINTERED METAL COMPOSITIONS.
Claims use since 1917.

399,920. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. F. Straub & Company, Chicago, Ill. Filed Oct. 31, 1942. Serial No. 456,572.

HONEY MELLOWED

FOR PRUNE JUICE USED FOR FOOD PURPOSES.
Claims use since August, 1941.

399,921. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Gillette Safety Razor Company, Boston, Mass. Filed Nov. 10, 1942. Serial No. 456,730.

ROMAN

FOR SAFETY RAZORS.
Claims use since October, 1925.

399,922. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Gillette Safety Razor Company, Boston, Mass. Filed Nov. 10, 1942. Serial No. 456,731.

LONDONER

FOR SAFETY RAZORS.
Claims use since September, 1925.

399,923. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Gillette Safety Razor Company, Boston, Mass. Filed Nov. 12, 1942. Serial No. 456,768.

NEW YORKER

FOR SAFETY RAZORS.
Claims use since September, 1925.

399,924. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed Nov. 12, 1942. Serial No. 456,769.

PARISIAN

FOR SAFETY RAZORS.
Claims use since November, 1925.

399,925. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed Nov. 13, 1942. Serial No. 456,796.

BERKSHIRE

FOR SAFETY RAZORS.
Claims use since January, 1930.

399,926. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed Nov. 17, 1942. Serial No. 456,872.

NORFOLK

FOR SAFETY RAZORS.
Claims use since May, 1930.

399,927. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed Nov. 19, 1942. Serial No. 456,923.

STANDARD

FOR SAFETY RAZORS.
Claims use since 1904.

TRADE-MARK REGISTRATIONS RENEWED

22,273. **VELVET LEAD.** LEAD PENCILS. Registered December 27, 1892. AMERICAN LEAD PENCIL COMPANY, New York, N. Y., a corporation of New York. Re-renewed December 27, 1942.

22,955. **"CRITERION" AND DRAWING.** BITUMINOUS COAL. Registered May 2, 1893. WESTMORELAND COAL COMPANY, Philadelphia and Westmoreland County, Pa., a corporation of Pennsylvania. Re-renewed May 2, 1943.

162,498. **DU PONT.** POLISHES ACTING AS GREASE REMOVERS AND CLEANING MATERIALS, METAL POLISH; SOLUTIONS FOR SURFACING, FINISHING, AND RENEWING LEATHER, LEATHER SUBSTITUTES, AND FABRICS. Registered December 19, 1922. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del., a corporation of Delaware. Renewed December 19, 1942.

162,561. **L'OFFRANDE.** TOILET SOAPS. Registered December 19, 1922. MULHENS & KROPFF, INCORPORATED, New York, N. Y. Renewed December 19, 1942, to Alien Property Custodian, Washington, D. C., assignee by mesne assignments.

162,754. **IMMUNITY.** CERTAIN NAMED DENTAL APPLIANCES. Registered December 26, 1922. HUGO FRIEDMAN, doing business as The Hugo Friedman Mfg. Co. Renewed December 26, 1942, to Hugo Friedman, doing business as The Hu-Friedy Mfg. Co., Chicago, Ill.

162,839. **TATRIM.** WOVEN AND BRAIDED TRIMMINGS. Registered December 26, 1922. THE NARROW FABRIC CO., West Reading, Pa. Renewed December 26, 1942, to The Narrow Fabric Company, Reading, Pa., a corporation of Pennsylvania.

163,046. **STONEWALL.** CERTAIN NAMED CONSTRUCTION MATERIALS. Registered January 2, 1923. CUTLER-MAGNER CO. Renewed January 2, 1943, to Cutler-Magner Company, Duluth, Minn., a corporation of Minnesota, by change of name.

163,088. **FLEX-A-TILE.** PREPARED ROOFING, BUILDING BOARD, BUILDING PAPER, AND CEMENTS FOR LAYING AND REPAIRING PREPARED ROOFING. Registered January 2, 1923. THE HEPPES-NELSON ROOFING COMPANY, Chicago, Ill., assignor to The Richardson Company. Renewed January 2, 1943, to The Flintkote Company, New York, N. Y., a corporation of Massachusetts, assignee by mesne assignments.

163,113. **JACKSON SWATTER.** FLY SWATTERS. Registered January 2, 1923. LUBBERS & BELL MFG. CO. Renewed January 2, 1943, to Lubbers & Bell Mfg. Co., Clinton, Iowa, a corporation of Iowa, assignee.

163,473. **LEDGERETTE.** LOOSE-LEAF BINDERS. Registered January 16, 1923. IRVING-PITT MANUFACTURING COMPANY, Kansas City, Mo. Renewed January 16, 1943, to Wilson Jones Company, Chicago, Ill., a corporation of Massachusetts, assignee by mesne assignments.

163,807. **CHORE BALL.** SCOURING UTENSILS. Registered January 30, 1923. THE CHORE UTENSILS CORPORATION OF AMERICA, Orange, N. J. Renewed January 30, 1943, to Metal Textile Corporation, West Orange, N. J., a corporation of Delaware, assignee by mesne assignments.

164,170. **MEDLEY.** SWEET-PICKLED FRUITS. Registered February 13, 1923. G. B. RAFFETTO, INC., New York, N. Y., a corporation of New York. Renewed February 13, 1943.

164,369. **KATHERINE & PETRUCHIO.** CIGARS. Registered February 20, 1923. HAVANA CIGAR AND TOBACCO FACTORIES, LTD. Renewed February 20, 1943, to The American Tobacco Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

164,735. **VERITOP.** CITRUS FRUITS IN THEIR NATURAL STATE. Registered February 27, 1923. NORTH WHITTIER HEIGHTS CITRUS ASS'N. Renewed February 27, 1943, to North Whittier Heights Citrus Association, Puente, Calif., a corporation of California, assignee.

164,747. **"BIG CHIEF" AND DRAWING.** WORK PANTS. Registered February 27, 1923. SEARS, ROEBUCK AND CO., Chicago, Ill., a corporation of New York. Renewed February 27, 1943.

164,777. **BEAUMAL.** RAINCOATS AND TOPCOATS. Registered February 27, 1923. C. B. SHANE CO. Renewed February 27, 1943, to C. B. Shane Corporation, Chicago, Ill., a corporation of Illinois, assignee.

164,807. **SPICK AND SPAN.** HOSIERY, KNITTED UNDERWEAR, AND TEXTILE-FABRIC UNDERWEAR FOR MEN, WOMEN, AND CHILDREN; AND SWEATERS. Registered February 27, 1923. MANDEL & COHEN. Renewed February 27, 1943, to Max Mandel, New York, N. Y., assignee by mesne assignments.

164,829. **"S" AND DRAWING.** SOLID FORGED GEAR BLANKS, IRON CASTINGS, IRON FORGINGS, STEEL CASTINGS, AND STEEL FORGINGS. Registered February 27, 1923. STANDARD STEEL WORKS COMPANY, Philadelphia, Pa. Renewed February 27, 1943, to The Baldwin Locomotive Works, Eddystone, Pa., a corporation of Pennsylvania, assignee.

164,835. **LA TRINIDAD.** CIGARS. Registered February 27, 1923. M. VALLE Y CA., INC. Renewed February 27, 1943, to The American Tobacco Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

165,074. **REPRESENTATION OF A RED BAND.** SHEET-METAL TANKS. Registered March 6, 1923. ANDREW A. KRAMER, doing business as Columbian Steel Tank Company. Renewed March 6, 1943, to Columbian Steel Tank Company, Kansas City, Mo., a copartnership, successor.

165,148. **"KANSAS EXPANSION" AND DRAWING.** WHEAT FLOUR. Registered March 6, 1923. THE WICHITA FLOUR MILLS CO., Wichita, Kans., a corporation of Kansas. Renewed March 6, 1943.

165,269. **REPRESENTATION OF AN ARCH-LIKE FIGURE.** HOLLOW SILVERWARE AND HOLLOW SILVER-PLATED WARE. Registered March 6, 1923. INTERNATIONAL SILVER COMPANY, Meriden, Conn., a corporation of New Jersey. Renewed March 6, 1943.

165,484. **"S" AND DRAWING.** FORGED AND ROLLED STEEL PIPE FLANGES. Registered March 13, 1923. STANDARD STEEL WORKS COMPANY, Philadelphia, Pa. Renewed March 13, 1943, to The Baldwin Locomotive Works, Eddystone, Pa., a corporation of Pennsylvania, assignee.

165,690. **WYDOWN.** BEDQUILTS, BEDSPREADS, AND COUNTERPANES. Registered March 20, 1923. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed March 20, 1943.

165,753. **"BOBBIE" AND DRAWING.** CIGARS. Registered March 20, 1923. GENERAL CIGAR CO., INC., New York, N. Y., a corporation of New York. Renewed March 20, 1943.

165,849. **SHIELD.** PAPER BAGS. Registered March 20, 1923. UNION BAG & PAPER CORPORATION, Jersey City, N. J., and New York, N. Y. Renewed March 20, 1943, to Union Bag & Paper Corporation, New York, N. Y., a corporation of New Jersey.

165,977. **NESSELRO.** MARRONS AND ASSORTED FRUITS. Registered March 27, 1923. R. B. RAFFETTO, INC., New York, N. Y., a corporation of New York. Renewed March 27, 1943.

165,986. **ANGELUS.** FRESH CITRUS FRUITS. Registered March 27, 1923. NORTH WHITTIER HEIGHTS CITRUS ASS'N. Renewed March 27, 1943, to North Whittier Heights Citrus Association, Puente, Calif., a corporation of California, assignee.

166,037. **"S" AND DRAWING.** RINGS AND ROLLED SHELLS FOR CRUSHERS FOR REDUCING AND PULVERIZING SOLID MATERIALS. Registered March 27, 1923. STANDARD STEEL WORKS COMPANY, Philadelphia, Pa. Renewed March 27, 1943, to The Baldwin Locomotive Works, Eddystone, Pa., a corporation of Pennsylvania, assignee.

166,084. **FRAY BENTOS.** EXTRACT OF MEAT, TONGUES, MEAT MEAL, A FOOD FOR CATTLE, AND PRESERVED MEAT. Registered March 27, 1923. OXO, LIMITED, London, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Renewed March 27, 1943.

166,206. **REPRESENTATION OF A STAR.** PAPER FASTENERS. Registered March 27, 1923. THE WATERBURY BRASS GOODS CORPORATION. Renewed March 27, 1943, to The American Brass Company, Waterbury, Conn., a corporation of Connecticut, assignee.

166,606. **"MARATHON" AND DRAWING.** LEATHER, FABRIC, OR RUBBER BELTS FOR SUPPORTING OUTER GARMENTS. Registered April 10, 1923. THE MARATHON TIRE & RUBBER COMPANY, Cuyahoga Falls, Ohio. Renewed April 10, 1943, to The Goodyear Tire & Rubber Company, Akron, Ohio, a corporation of Ohio, assignee by mesne assignments.

166,690. **PILGRIM.** HOSIERY. Registered April 10, 1923. THE POWELL KNITTING COMPANY, Philadelphia, Pa. Renewed April 10, 1943, to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York, assignee.

167,135. **HOOSIER GOLD.** BUTTER. Registered April 24, 1923. THE WADLEY COMPANY, Indianapolis, and Terre Haute, Ind. Renewed April 24, 1943, to The Wadley Company, Indianapolis, Ind., a corporation of Indiana.

167,137. **S CO.** DRESSED POULTRY AND EGGS. Registered April 24, 1923. THE SEYMOUR PACKING COMPANY, Topeka, Kans., a corporation of Kansas. Renewed April 24, 1943.

167,138. **CONSORT.** DRESSED POULTRY AND EGGS. Registered April 24, 1923. THE SEYMOUR PACKING COMPANY, Topeka, Kans., a corporation of Kansas. Renewed April 24, 1943.

167,139. **EQUITY.** DRESSED POULTRY. Registered April 24, 1923. THE SEYMOUR PACKING COMPANY, Topeka, Kans., a corporation of Kansas. Renewed April 24, 1943.

167,174. **TRADITION.** SMOKING TOBACCO. Registered April 24, 1923. ARDATH TOBACCO COMPANY, LIMITED. Renewed April 24, 1943, to Ardath Tobacco Company, Limited, London, England, a corporation of the United Kingdom of Great Britain and Northern Ireland, assignee.

167,203. **KANSAS W.** WHEAT FLOUR. Registered April 24, 1923. THE WICHITA FLOUR MILLS CO., Topeka, Kans, a corporation of Kansas. Renewed April 24, 1943.

167,223. **ELECT.** DRESSED POULTRY. Registered April 24, 1923. THE SEYMOUR PACKING COMPANY, Topeka, Kans., a corporation of Kansas. Renewed April 24, 1943.

167,233. **MUTUAL.** CHEMICALS SUCH AS BICHROMATE OF POTASH AND BICHROMATE OF SODA. Registered April 24, 1923. MUTUAL CHEMICAL CO. OF AMERICA, New York, N. Y., a corporation of New Jersey. Renewed April 24, 1943.

167,816. **RAISINUT.** CANDY AND CANDY FILLER. Registered May 8, 1923. SUN MAID RAISIN GROWERS. Renewed May 8, 1943, to Sun-Maid Raisin Growers of California, Fresno, Calif., an incorporated cooperative association of California, assignee.

167,946. **REPRESENTATION OF A HAMMER.** FUR SKINS DRESSED AND DYED. Registered May 8, 1923. HERMAN BASCH & CO., INC., New York and Brooklyn, N. Y. Renewed May 8, 1943, to Herman Basch & Co. Inc., North Bergen, N. J., a corporation of New Jersey, assignee.

168,082. **"REX" AND DRAWING.** SMOKING AND CHEWING TOBACCO AND CIGARETTES. Registered May 15, 1923. LIGGETT & MEYERS TOBACCO COMPANY, New York, N. Y., a corporation of New Jersey. Renewed May 15, 1943.

168,183. **"FASHION CREST" AND DRAWING.** CLOAKS, WRAPS, AND SUITS FOR LADIES' OUTER WEAR. Registered May 15, 1923. THE MABLEY AND CAREW COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed May 15, 1943.

168,186. **ESQUIRE.** HOSIERY, SCARFS, NECKTIES, AND MUFFLERS. Registered May 15, 1923. NICKELS & LAUBER, INC., Philadelphia, Pa. Renewed May 15, 1943, to Nickels & Lauber, Inc., New York, N. Y., a corporation of New York, assignee.

168,228. **JACQUES.** CATHETERS, ESOPHAGUS TUBES, RECTAL TUBES, AND CUP FUNNELS. Registered May 15, 1923. WILLIAM WARNE AND COMPANY LIMITED, London, England. Renewed May 15, 1943, to William Warne & Co. Limited, Barking, England.

168,245. **"SLEDGE HAMMER" AND DRAWING.** LYE. Registered May 15, 1923. WM. SCHIELD MFG. CO., St. Louis, Mo. Renewed May 15, 1943, to B. T. Babbitt, Inc., Albany, N. Y., a corporation of New York, assignee.

168,374. **HOUSEHOLD.** CANNED FRUITS. Registered May 22, 1923. OLYMPIA CANNING COMPANY, Olympia, Wash., a corporation of Washington. Renewed May 22, 1943.

168,410. **DEO.** DEODORANTS. Registered May 22, 1923. ELMO, INC., Philadelphia, Pa., a corporation of Pennsylvania. Renewed May 22, 1943.

168,573. **JERIS.** FACE POWDERS, FACE CREAMS, PERFUMES, TOILET WATERS, ROUGES, HAIR TONICS, DENTIFRICES, TOOTH POWDERS, DEODORIZING PREPARATIONS, AND SACHET POWDERS. Registered May 29, 1923. ARTHUR WINARICK, New York, N. Y. Renewed May 29, 1943.

168,599. **"HANS KLEEN" AND DRAWING.** HAND SOAP. Registered May 29, 1923. WILLIAM J. POPP, doing business as Fort Orange Chemical Company. Renewed May 29, 1943, to Fort Orange Chemical Co., Inc., Albany, N. Y., a corporation of New York, assignee.

168,615. **"WELLWORTH" AND DRAWING.** CANNED FRUITS. Registered May 29, 1923. OLYMPIA CANNING COMPANY, Olympia, Wash., a corporation of Washington. Renewed May 29, 1943.

168,631. **SANTA DAMIANA.** CIGARS. Registered May 29, 1923. H. DE CABANAS Y CARBAJAL, Jersey City, N. J., and New York, N. Y. Renewed May 29, 1943, to H. de Cabanas y Carbajal, Trenton, N. J., a corporation of New Jersey.

168,650. **"SECURITY" AND DRAWING.** PORTLAND CEMENT. Registered May 29, 1923. SECURITY CEMENT & LIME CO., Hagerstown, Md. Renewed May 29, 1943, to North American Cement Corporation, New York, N. Y., a corporation of Delaware, assignee.

168,672. **IDEAL.** GUMMED PAPER AND GUMMED CLOTH IN SHEETS AND STRIPS. Registered May 29, 1923. IDEAL COATED PAPER COMPANY, assignor to McLaurin-Jones Co. Renewed May 29, 1943, to McLaurin-Jones Co., Brookfield, Mass., a corporation of Massachusetts, assignee.

168,685. **"RED SEAL" AND DRAWING.** FRESH FRUITS—NAMELY, APPLES. Registered May 29, 1923. WENATCHEE NORTHERN WAREHOUSE & MARKETING CO., Wenatchee, Wash. Renewed May 29, 1943, to Northern Cold Storage & Warehouse Company, Duluth, Minn., a corporation of Minnesota, assignee.

168,699. **ART-WARE.** COATED BOOK PAPERS. Registered May 29, 1923. MCLAURIN-JONES CO., Brookfield, Mass., a corporation of Massachusetts. Renewed May 29, 1943.

168,942. **CLOSEKOTE.** ABRASIVE PAPERS AND CLOTH. Registered May 29, 1923. HERMAN BEHR & COMPANY, INCORPORATED, Brooklyn, N. Y. Renewed May 29, 1943, to Behr-Manning Corporation, Troy, N. Y., a corporation of Massachusetts, by consolidation.

169,038. **MUNSINGWEAR.** UNDERWEAR, KNIT OR WOVEN, AND HOSIERY, FOR MEN, WOMEN, AND CHILDREN. Registered June 5, 1923. THE MUNSINGWEAR CORPORATION. Renewed June 5, 1943, to Munsingwear, Inc., Minneapolis, Minn., a corporation of Delaware, assignee.

169,047. **FLORIDA CITRUS EXCHANGE.** FRESH CITRUS FRUITS. Registered June 5, 1923. FLORIDA CITRUS EXCHANGE, Tampa, Fla., a corporation of Florida. Renewed June 5, 1943.

169,049. **KAFFOR KID.** LEATHER. Registered June 5, 1923. THE OHIO LEATHER COMPANY, Girard, Ohio, a corporation of Ohio. Renewed June 5, 1943.

169,173. **"1776 BROADCLOTH" AND DRAWING.** DRESS SHIRTS, NEGLIGEE SHIRTS, WORK SHIRTS, COLLARS, PYJAMAS, AND NIGHTSHIRTS. Registered June 12, 1923. PHILLIPS-JONES CORPORATION, New York, N. Y., a corporation of New York. Renewed June 12, 1943.

169,185. **REPRESENTATION OF A CLOWN'S FALSE FACE.** MASQUERADE OUTFITS. Registered June 12, 1923. DESSART BROTHERS, INC., Brooklyn, N. Y., a corporation of New York. Renewed June 12, 1943.

169,186. **REPRESENTATION OF A MAN'S FALSE FACE.** MASQUERADE OUTFITS. Registered June 12, 1923. DESSART BROTHERS, INC., Brooklyn, N. Y., a corporation of New York. Renewed June 12, 1943.

169,187. **"DES-ARTS" AND DRAWING.** MASQUERADE OUTFITS. Registered June 12, 1923. DESSART BROTHERS, INC., Brooklyn, N. Y., a corporation of New York. Renewed June 12, 1943.

169,199. **MEB.** SMOKERS' ARTICLES—VIZ, CIGAR LIGHTERS, COMBINATION ASH TRAYS AND LIGHTERS. Registered June 12, 1923. MAX E. BERNHARDT. Renewed June 12, 1943, to D. A. Schulte, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

169,213. **EZEMADE.** SALAD-DRESSING POWDER AND CAKE-ICING POWDER. Registered June 12, 1923. THE MILLS BROTHERS COMPANY, doing business as American Products Company. Renewed June 12, 1943, to The Zanol Products Company, Cincinnati, Ohio, a corporation of Ohio, assignee by mesne assignments.

169,254. **RAMBLER.** BICYCLES. Registered June 12, 1923. WESTFIELD MANUFACTURING COMPANY. Renewed June 12, 1943, to The Westfield Manufacturing Company, Westfield, Mass., a corporation of Massachusetts, assignee.

169,317. **RUNWEL.** LEATHER BELTS. Registered June 12, 1923. TEXAS BELTING COMPANY. Renewed June 12, 1943, to Texas Belting & Supply Co., Inc., Houston, Tex., a corporation of Texas, assignee.

169,334. **CONQUEROR.** FOUNTAIN PENS. Registered June 12, 1923. SALZ BROS. INC., New York, N. Y., a corporation of New York. Renewed June 12, 1943.

169,344. **RAMONA.** MOLASSES. Registered June 12, 1923. PENICK & FORD, LTD., INCORPORATED, New Orleans, La. Renewed June 12, 1943, to Penick & Ford, Ltd. Inc., New York N. Y., a corporation of Delaware.

169,346. **REPRESENTATION OF A WATER COCK WITH THE HANDLE COLORED RED.** COCKS, STOP AND WASTE, AND CORPORATION. Registered June 12, 1923. RED HED MFG. CO. Renewed June 12, 1943, to Red Hed Mfg. Co., Boston, Mass., a corporation of Massachusetts, assignee.

169,347. **RED HED.** COCKS, STOP AND WASTE, AND CORPORATION. Registered June 12, 1923. RED HED MFG. CO. Renewed June 12, 1943, to Red Hed Mfg. Co., Boston, Mass., a corporation of Massachusetts, assignee.

169,365. **SMITHSONIAN.** CERTAIN NAMED PAPER AND STATIONERY. Registered June 12, 1923. THE SMITH TABLET COMPANY, INC., Holyoke, Mass. Renewed June 12, 1943, to Western Tablet & Stationery Corporation, Dayton, Ohio, a corporation of Delaware, assignee.

REISSUES

FEBRUARY 2, 1943

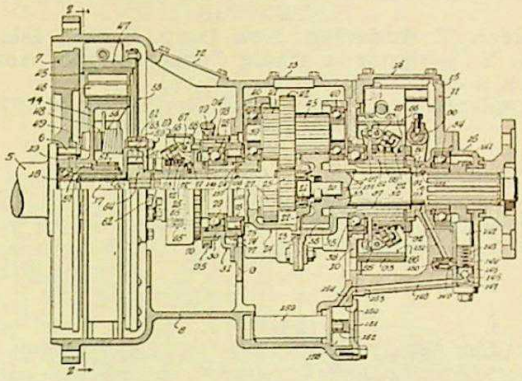
22,259

AUTOMATIC TRANSMISSION

Oscar H. Banker, Chicago, Ill., assignor to New Products Corporation, Chicago, Ill., a corporation of Delaware

Original No. 2,171,534, dated September 5, 1939, Serial No. 24,035, May 29, 1935. Application for reissue August 30, 1940, Serial No. 354,901

27 Claims. (Cl. 74—260)



1. A change speed transmission mechanism comprising a drive shaft, a driven shaft, a single planetary gear unit connecting said shafts including a pair of transmission drive shafts, clutch mechanism connecting one of said transmission drive shafts with said first named drive shaft, speed responsive overrunning jaw clutch mechanism for establishing the drive from said first named drive shaft through the other of said transmission drive shafts on a temporary reduction in speed of said first named drive shaft, said gear unit including a planetary gear carrier, automatic brake mechanism for said planetary carrier, and speed responsive jaw clutch mechanism for connecting said carrier with said driven shaft for direct drive.

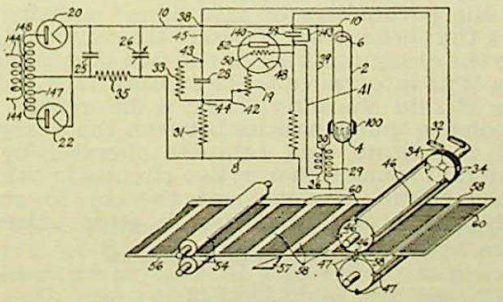
22,260

SWITCHING SYSTEM FOR LIGHT-FLASH PRODUCERS, SUCH AS STROBOSCOPES

Harold E. Edgerton, Belmont, Mass.

Original No. 2,181,879, dated December 5, 1939, Serial No. 610,045, May 9, 1932. Application for reissue March 11, 1941, Serial No. 382,832

2 Claims. (Cl. 176—124)



1. A switching system for a light-flash-producer comprising a lamp having an anode, a cathode and a grid, a current-supply circuit interrupted by the said cathode and anode, a capacity across the anode and cathode, and a breaker circuit interrupted by the grid and cathode and including a source of current.

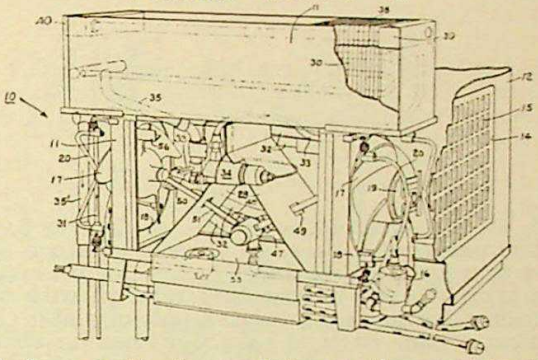
22,261

AIR CONDITIONING APPARATUS

Milton Kalischer, Longmeadow, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Original No. 2,013,756, dated September 10, 1935, Serial No. 698,205, November 15, 1933. Application for reissue February 7, 1940, Serial No. 317,781

4 Claims. (Cl. 257—9)



1. In a unit air-conditioner, the combination of a casing having an outlet in one side and opposed inlets in two opposite sides adjacent the first-mentioned sides, a heat-exchanger disposed within the casing adjacent the outlet, propeller fans positioned with their axes of rotation in alignment with said inlets for effecting flow of air from each inlet inwardly toward the other inlet, a deflector of V-shape, disposed between said fans with the bottom or point of the V toward the outlet, for deflecting the air toward the outlet, the sides of the deflector having openings therein, and a fitting disposed within the V-shaped deflector having nozzles for directing streams of water through said openings into the air streams to humidify the air.

4. In a room cooler, the combination of a casing, an evaporator therein, means for conveying air through said casing and in contact with said evaporator, a heat exchanger, means for conveying liquid refrigerant for said evaporator and vaporized refrigerant exhausted from said evaporator in heat exchanging relation with each other in said heat exchanger, said heat exchanger comprising a double tube coil arranged in convolutions in a vertical plane adjacent a vertical wall of said casing.

22,262

TREATMENT OF CASEIN FIBERS

Theodoor Koch, Oosterbeek, and Henricus Anthonius van der Kroon, Arnhem, Netherlands, assignors to American Enka Corporation, Enka, N. C., a firm

No Drawing. Original No. 2,169,955, dated August 15, 1939, Serial No. 203,700, April 22, 1938. Application for reissue May 9, 1940, Serial No. 334,294. In Germany May 11, 1937

9 Claims. (Cl. 18—54)

1. In a process for rendering casein fibers resistant to shrinkage and sticking in hot acid dye baths wherein the fibers have been initially coagulated in an acid precipitating bath, the step which comprises subjecting the fibers to treatment with nitrous acid.

PATENTS

GRANTED FEBRUARY 2, 1943

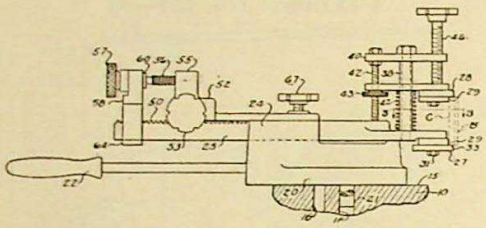
2,309,620

GRINDING JIG

John Y. Blazek, Bedford, and Gilbert E. Sears and Vernon R. Roy, Cleveland, Ohio, assignors to Lempco Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application August 23, 1940, Serial No. 353,878

3 Claims. (Cl. 51—124)



1. In a device of the character described, the combination of a base, an abrasive surface carried thereby, and rotatable means for maintaining a brake shoe in abrading relation with said abrading surface comprising a pair of plates each having a step, each of said steps having spaced corners which lie on a line the perpendicular bisector of which passes through the axis about which said means rotates, that portion of each of said plates which interconnects the corners thereof being of a relatively large radius of curvature whereby the edges and the inner cylindrical surface of brake shoes of various radii may be located by said corners and clamped between said steps with the center of the brake shoe lying on said perpendicular bisector.

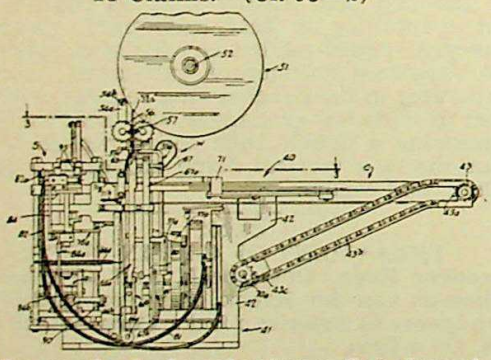
2,309,621

PACKAGING APPARATUS AND METHOD

Mervin Allatt, Plainfield, N. J., assignor to Millie Patent Holding Co., Inc., a corporation of New York

Application July 2, 1938, Serial No. 217,210

13 Claims. (Cl. 93—2)



1. The method of packaging a flat-shaped article consisting in feeding articles and a strip from which wrappers are cut in predetermined paths of movement, cutting and bowing a wrapper in a mid-portion thereof after advancing the wrapper into the path of movement of the article, conforming said article to a predetermined size, advancing the sized article into the bowed portion of the wrapper and sufficiently beyond while folding the wrapper around the bottom, front and rear flat sides of the article, clamping the wrapper to completely enclose the article therein inwardly of the free edge portion of said wrapper, and heat sealing the said free portion of the wrapper.

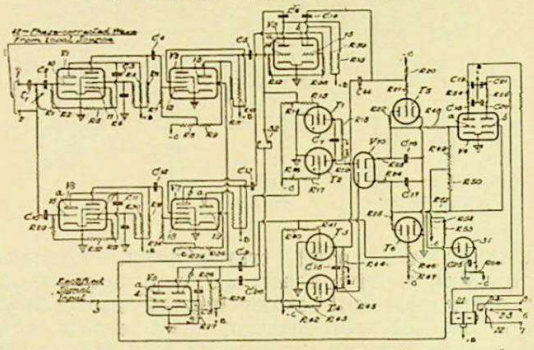
2,309,622

PHASE CORRECTOR FOR TELEGRAPH SYSTEMS

Warren A. Anderson, New Dorp, Staten Island, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application April 30, 1941, Serial No. 391,077

6 Claims. (Cl. 178—69.5)



1. In a synchronizing system for telegraph apparatus, a local source of sine waves, a corrector circuit arrangement having input terminals fed from said source through a phase rotating device, a phase splitting network connected to said terminals, a signal input terminal for said corrector circuit arrangement, two capacitors each receptive of charges to be mutually compared for producing a synchronizing effect upon said phase rotating device, means including three pulse generators A, B, and C for determining the charging times of said capacitors, said generators being so arranged and connected that generator A is receptive of signals from said signal input terminal and defines the starting moment of the charge on one of said capacitors and also the finish moment of the charge on the second of said capacitors, generator B defines the finish moment of the charge on the first said capacitor, and generator C defines the starting moment of the charge on the second said capacitor, means for so adjusting the parameters of said phase splitting network that generators B and C are caused to separate the charging times of the two said capacitors by a time interval equal to substantially half the sum of said charging times, a differential relay responsive to inequalities between the charges on said capacitors, and contacts operable by said relay for closing either of two circuits in said corrector circuit arrangement thereby to actuate said phase rotating device in either direction.

2,309,623

CONVEYER LOADER

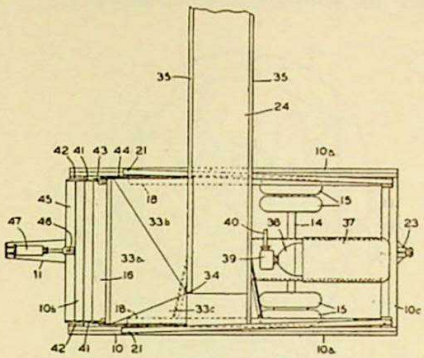
Raymond Q. Armington, Shaker Heights, Ohio, assignor to The Euclid Road Machinery Company, Euclid, Ohio, a corporation of Ohio

Application November 6, 1940, Serial No. 364,481

2 Claims. (Cl. 37—108)

1. Earth moving apparatus comprising a frame, wheel means supporting said frame, a scraper

blade mounted on said frame and adapted to excavate ground beneath it, said blade being at least as wide as the tread of said wheel means, conveyer means on said frame for transferring excavated material from a receiving point spaced above the ground to a discharging point laterally



outside said frame, and a moldboard constructed and arranged to receive excavated material from the entire length of said blade and to transfer said material to said conveyer means at said receiving point.

2,309,624

BETA-ALKOXYBUTYROGUANAMINES

Margaret Humm Bradley, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 30, 1941, Serial No. 409,134

6 Claims. (Cl. 260—248)

4. A process of preparing β-alkoxybutyroguanamines which comprises reacting a biguanide in solution in an alcohol, the alkoxy group of which is desired, with an ester of an acid included in the group consisting of crotonic and methacrylic acids.

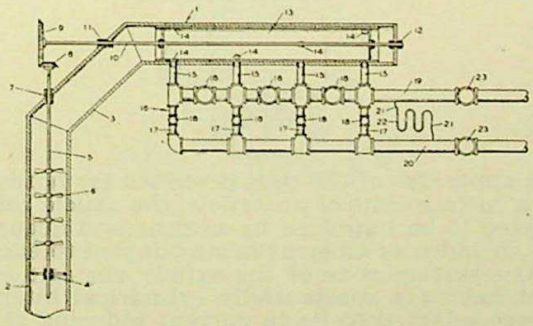
2,309,625

SAMPLING APPARATUS

Cyrus D. Cantrell, Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application October 3, 1940, Serial No. 359,602

2 Claims. (Cl. 137—166)



1. In apparatus for obtaining representative samples of fluid flowing through a conduit, the combination comprising a chamber communicating with the conduit, a fluid sampler line, a fluid flow line, a plurality of outlets for the chamber, means for interconnecting the outlets with the flow line and the sampler line so that the number of outlets in communication with the sampler line and the flow line may be varied, a hollow member rotatable within the chamber, a plurality of passages in the hollow member establishing communication between the interior and exterior thereof, said passages registering with corresponding aforementioned outlets to transmit predetermined proportions of fluid admitted into the chamber through each line.

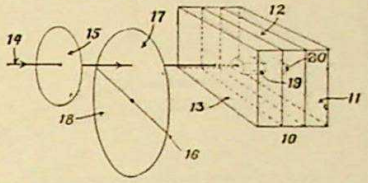
2,309,626

COLOR PHOTOGRAPHY

Ivan W. Conrad, Alexandria, Va.

Application August 19, 1939, Serial No. 291,075

12 Claims. (Cl. 95—2)



1. In a color photographic optical system, a photographic element substantially in a focal plane thereof, a polarizing analyzing means adjacent to and in front of said photographic element, a color segregating means in front of said analyzing means, means for polarizing light rays traversing said optical system, at least one of said two means first mentioned being composed of substantially regularly recurring sets of separate finely divided intermingled portions, the portions of the respective sets having different optical effects dependent upon the nature of the polarized light, said color segregating means coacting with both said analyzing means and said polarizing means either to separately group the color components of the polarized rays in a correspondingly regularly recurring manner on a light sensitive photographic element during taking of a picture or to project a photographic picture element so taken and placed in substantially the same position to produce a color picture.

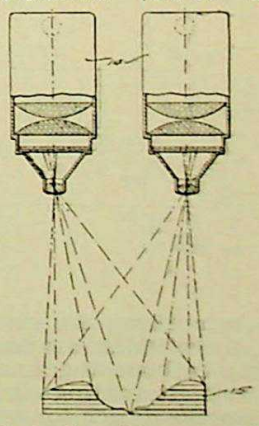
2,309,627

CONTOUR MAP AND METHOD OF MAKING SAME

Hereward Lester Cooke and Gaylord P. Harnwell, Princeton, N. J., assignors to Aero Survey Corporation, a corporation of Delaware

Application June 17, 1938, Serial No. 214,208

14 Claims. (Cl. 35—41)



1. The method of making a contour map which consists in carving a block of carvable material having officially contrasting layers located at predetermined positions in said block into a relief of the terrain to be mapped so as to expose the edges of said contrasting layers, photographing said block so that the exposed edges of said layers will appear as contour lines, and producing a contour map from said photograph.

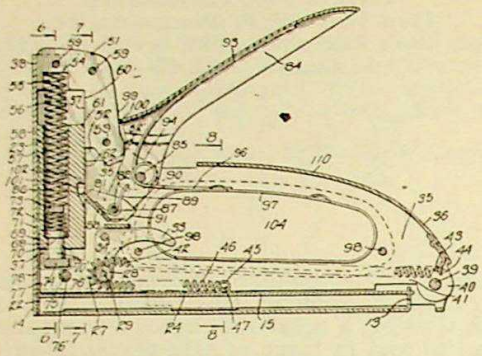
2,309,628

TACKER

Stephen A. Crosby, Jackson Heights, N. Y., assignor to Speed Products Company, New York, N. Y.

Application July 22, 1939, Serial No. 286,006

20 Claims. (Cl. 1—49)



1. In combination, a magazine, a rail within the magazine for supporting staples, a cover for closing said magazine, a movable staple ejecting driver guided by said cover, a plunger movably guided by said driver, shock absorbing spring means for normally holding said plunger depressed, power spring means independent of said shock absorbing spring means for normally holding said driver depressed, actuator means for raising said driver against the resistance of said power spring means, and abutment means within said cover and above said rail to receive the impact of said plunger on the release of said power spring means and on the downward stroke of said driver for compressing said shock absorbing spring means.

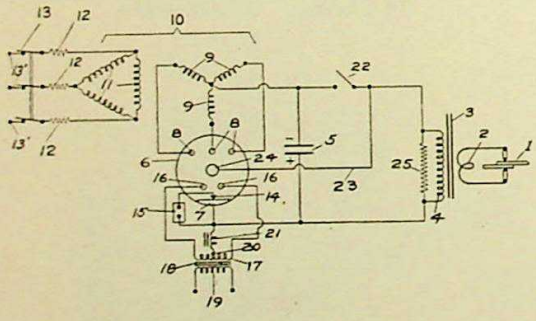
2,309,629

CONDENSER WELDING SYSTEM

John W. Dawson, Auburndale, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application July 3, 1940, Serial No. 343,786

7 Claims. (Cl. 171—97)



1. A system comprising an electrical energy storage device, a rectifying discharge tube, said tube comprising a cathode and an anode adapted to be supplied with alternating current and connected to said storage device for supplying rectified storage energy thereto, a load circuit, means for discharging the energy stored in said storage device into said load circuit comprising circuit-closing means connected between the negative side of said storage device and a point on said load circuit, said tube containing an additional anode, said additional anode and said cathode being connected to points of opposite polarity on said load circuit.

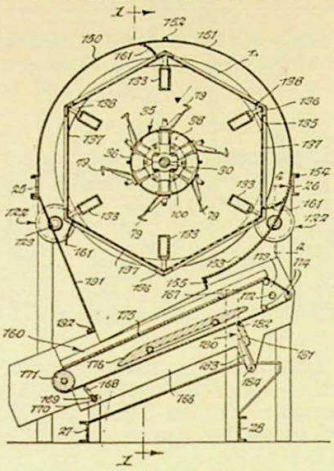
2,309,630

VINER

William de Back, Niagara Falls, N. Y., assignor to Chisholm-Ryder Company, Incorporated, Niagara Falls, N. Y., a corporation of New York

Application July 27, 1940, Serial No. 347,881

10 Claims. (Cl. 130—30)



1. A viner, comprising a frame, a reel mounted on said frame to rotate about a horizontal axis and adapted to receive and convey the vines and pods attached thereto, means for rotating said reel, means for threshing the vines conveyed by said reel, a plate arranged adjacent said reel and concentric with the axis thereof, and a sweep carried by said reel and sweeping said plate to remove any threshed materials therefrom.

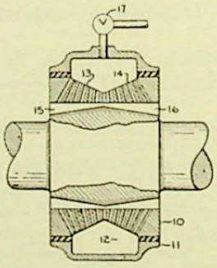
2,309,631

APPARATUS FOR HARDENING TAPERED ARTICLES

Francis S. Denneen, Cleveland, and William C. Dunn, Shaker Heights, Ohio, assignors to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio

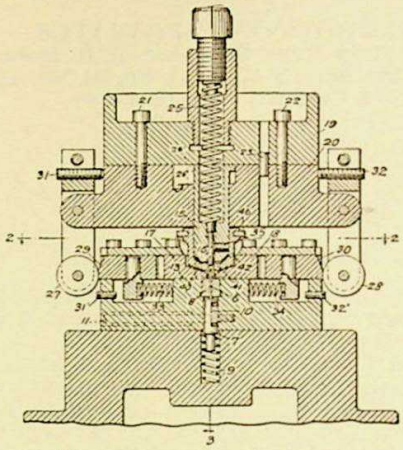
Application May 27, 1940, Serial No. 337,424

1 Claim. (Cl. 266—4)



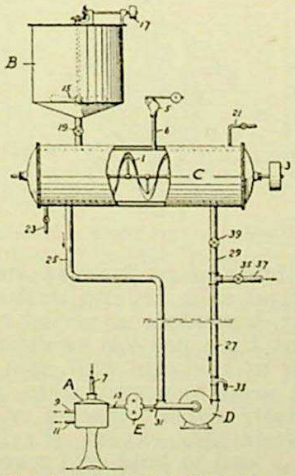
In apparatus of the class described for hardening a surface zone of an article, the article being adapted to be hardened by heating and quenching, an inductor element being adapted to encircle the surface zone of the article, the said element having a substantially cylindrical interior surface adapted to lie in current inducing relation with the surface zone of the article, an exterior surface of the element comprising two substantially conical surfaces intersecting substantially midway between the sides of the inductor to form a peripherally extending channel, a cover for said channel, said channel and said cover forming an annular quenching fluid supply chamber, and a multiplicity of passages extending thru the inductor element to deliver quenching fluid from said chamber, said passages varying progressively in length from the central part to lateral parts of the inductor element.

2,309,632
FORMING DIE SET
Augusto De Rentiis, Prospect Park, Pa.
Application September 13, 1940, Serial No. 356,629
4 Claims. (Cl. 153—34)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



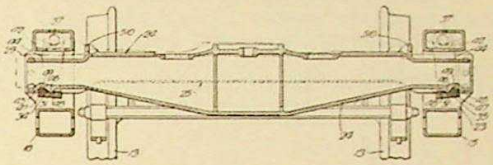
1. A machine for reforming escapement levers for clockwork fuses, said levers having pallets bent at an angle to the plane of the lever proper, said machine comprising a bed for reception of the lever, a resiliently held reciprocating anchoring rod for the lever, a slotted member on the bed to receive one arm of the lever to position the same, a head member bearing a vertical die for pressing on the face of said lever, transverse dies on said bed to engage said pallets, cam means on said transverse dies, and cooperating means on said head member to transmit its motion to the transverse dies through said cam means.

2,309,633
METHOD FOR THE NEUTRALIZATION OF ACID SLUDGES
Francis I. Du Pont, Wilmington, Del., and Willing B. Foulke, Media, Pa., assignors to Delaware Chemical Engineering Company, Wilmington, Del., a corporation of Delaware
Application May 9, 1940, Serial No. 334,114
6 Claims. (Cl. 196—148)



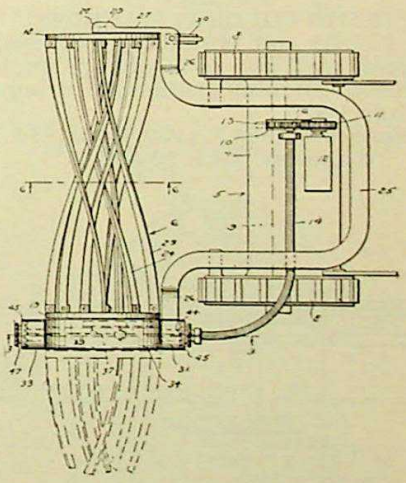
1. The method of neutralizing an acid sludge obtained in the sulphuric acid refining of mineral oil products which comprises forming a liquid neutralizing medium, maintaining a circulating stream of said neutralizing medium, and introducing a stream of acid sludge to be neutralized into said circulating stream.

2,309,634
RAILWAY CAR TRUCK
Knute Edahl and Cyrus J. Holland, Chicago, Ill., assignors to Holland Company, a corporation of Illinois
Application December 9, 1940, Serial No. 369,180
9 Claims. (Cl. 105—190)



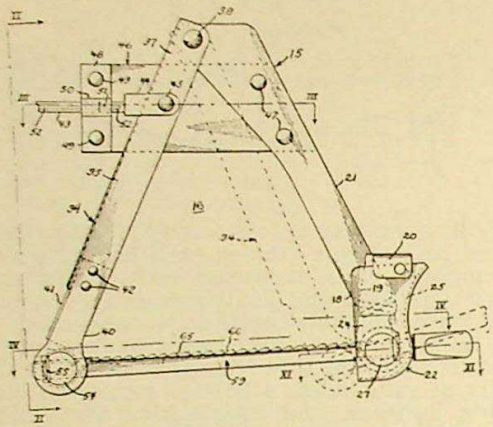
1. In a railway truck, a truck frame comprising a pair of side frames each having pedestals at opposite ends, transoms each having a rigid central portion and flexible ends for connecting said frames flexibly together, wheeled axles, journal boxes for said axles, swing hangers pivotally mounted on said side frames to swing longitudinally of said axles, a bolster supported on said swing hangers, and interlocking teeth between said swing hangers and the lower side of said bolster, said teeth being so constructed and arranged that said bolster will swing along a curve of comparatively long radius during its initial outward endwise movement under the influence of centrifugal action during the rounding of curves by said truck and along a curve of shorter radius as said bolster swings endwise beyond its initial movement.

2,309,635
MOWER
Lawrence L. Edwards, Cleveland, Ohio
Application January 23, 1942, Serial No. 427,997
2 Claims. (Cl. 56—249)



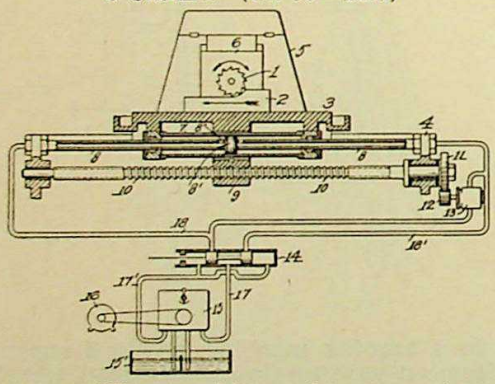
1. In a mowing machine, a wheel supported carriage, an axle rotatable with said wheels, a forwardly extending frame on said carriage including a side arm, a forwardly extending side yoke on said arm, an annular casing pivotally mounted in said yoke for swinging about a horizontal axis parallel with the path of travel of the machine, a mower reel mounted at one end on said casing for vertical swinging adjustment thereby about said axis into different set positions, and means to drive said reel in any adjusted position thereof comprising gearing in said casing, and operating connections between said axle and gearing.

2,309,636
BRAKE LEVER
Arthur P. Fergueson, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application May 9, 1940, Serial No. 334,103
18 Claims. (Cl. 74—536)



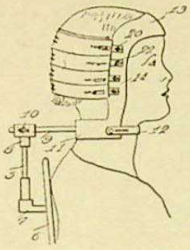
1. A brake actuating mechanism comprising a stationary support, a brake actuating member pivotally mounted on said support, a second member carried by and arranged for substantially longitudinally sliding movement through said support, said second member having means thereon for engaging said first member to move said first member to a brake applying position, and latching means independent of said second member for holding said first member in a desired brake applying position, whereby said second member may be returned to its original position without releasing said first member from its brake applying position.

2,309,637
CLIMB MILLING MACHINE
Ernest L. Fickett and William O. Forman, Fitchburg, Mass., assignors to Fitchburg Engineering Corporation, Fitchburg, Mass., a corporation of Massachusetts
Application September 5, 1939, Serial No. 293,413
8 Claims. (Cl. 90—21.5)



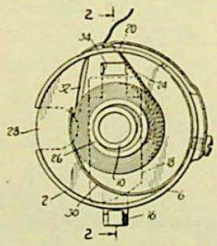
1. In a milling machine, a frame, a rotary cutter, a feed table, pressure means to feed the table forwardly and reversely, means to regulate the rate of feed of the table comprising a nut fixed to the table, a screw rod engaged therewith and journalled against longitudinal movement in the frame, power means to rotate the screw, said power means being constructed and arranged to travel the nut at a speed less than the potential speed of the table under influence of the table feeding means, said power means comprising an electric motor, a reversing switch therefor, means to reverse the direction of action of said pressure means, a link connecting said switch and said reversing means for simultaneous operation of both means, and means to move said link in two directions.

2,309,638
HAIR WAVING APPARATUS
Lucynda Irene Fink, Liscomb, Iowa
Application March 17, 1942, Serial No. 435,099
6 Claims. (Cl. 132—36)



1. A hair-waving device of the character described comprising a base member adapted to embrace the head and having a longitudinal transversely curved groove to receive the strands of hair, a hair-positioner member including a series of flexibly connected sections disposed within the groove of said base member, said sections having vertical transversely curved rows of teeth adapted to penetrate the hair and engage in longitudinal slots formed in said base member, a heating member covering said positioner member, and a cover disposed over said heating member.

2,309,639
BOBBIN CASE
Dwight R. Gardner, Springfield, Mass., assignor to The American Thread Company, New York, N. Y., a corporation of New Jersey
Application May 28, 1940, Serial No. 337,599
5 Claims. (Cl. 112—233)



1. In a bobbin case of the class described having a cylindrical wall, an end wall and a bobbin receiving post, a member of spring material having a resilient base portion positioned adjacent the inner side of said end wall, said base portion being slotted so as to permit it to be contracted circumferentially when inserted in the case to cause it to yieldingly engage the inner side of the cylindrical wall to hold said member in place, and a portion in the form of a spring projecting from the periphery of said base portion and convolutively arranged about said bobbin post whereby when a bobbin is in position on the post the outer free end portion of the spring bears under compression on the periphery of the bobbin, the pressure decreasing as the bobbin unwinds.

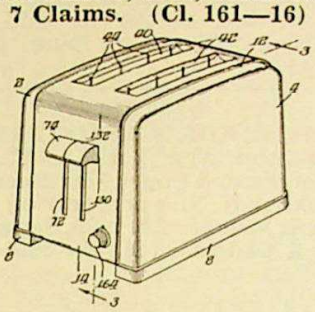
2,309,640

ELECTRIC TOASTER

James J. Gough, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application June 3, 1940, Serial No. 338,449

7 Claims. (Cl. 161—16)



1. In an electric toaster, a casing, an article-receiving tray shiftable from a non-toasting position to a toasting position relative to said casing, means for latching said tray in toasting position, operating means adapted to engage the latching means to release said latching means, time control means locking said operating means out of engagement with said latching means, and adjustable means engaging and releasing said locking means after a predetermined adjusted time interval to release said operating means for operative engagement with said latching means to move said latching means into a released position.

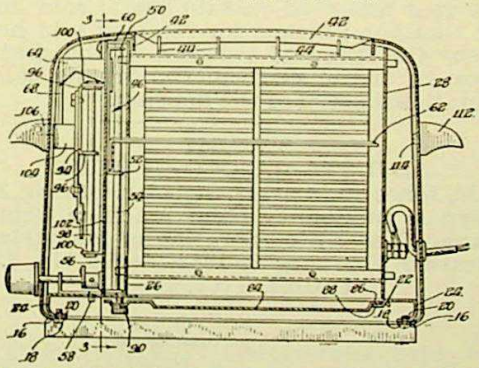
2,309,641

ELECTRIC APPLIANCE

James J. Gough, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois

Original application June 3, 1940, Serial No. 338,449. Divided and this application December 30, 1940, Serial No. 372,281

7 Claims. (Cl. 53—5)



1. In an electric toaster, a casing, said casing comprising a bottom plate, heating elements and spaced inner partitions to which said elements are secured to form a toast chamber, means securing each of said inner partitions to said bottom plate, and an outer casing comprising pan-shaped side sections having center side wall portions residing against side margins of said inner partitions and constrained from shifting inwardly thereby, said sections having marginal flanges projecting outwardly in a plane parallel to the plane of said side wall portions and a central generally U-shaped casing section having an inwardly projecting marginal flange overlapping the marginal flange of the side sections but free from connection therewith to retain said side sections in assembled relation against lateral separation, said center section being secured to said bottom plate to secure the outer casing to the inner casing, said center section having an opening therein in alignment with the toast chamber for the insertion of the slices into the toast chamber.

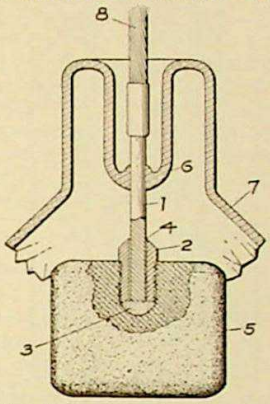
2,309,642

ELECTRODE SUPPORT LEAD

Robert Gray, Waltham, Mass., assignor to Raytheon Production Corporation, Newton, Mass., a corporation of Delaware

Application December 13, 1940, Serial No. 370,007

8 Claims. (Cl. 250—27.5)



1. An electrode support structure comprising a conducting rod, a sleeve snugly fitting around one end of said rod for a substantial distance from the outer end of said rod, said sleeve and rod being secured together only at the outer end of each respectively by means which makes the material of said structure brittle at said outer end, and means on said sleeve for securing said sleeve to an electrode.

2,309,643

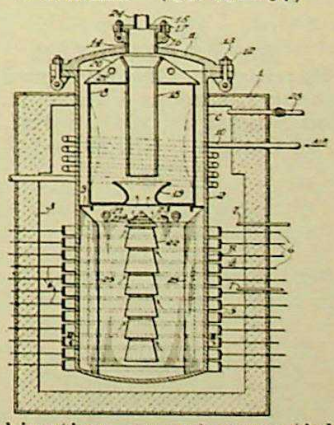
SUBLIMATION REFINING

Fritz Hansgirg, San Mateo, Calif., assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., a national banking association, as trustee

Application February 26, 1941, Serial No. 380,589

In Japan December 24, 1938

3 Claims. (Cl. 75—67)



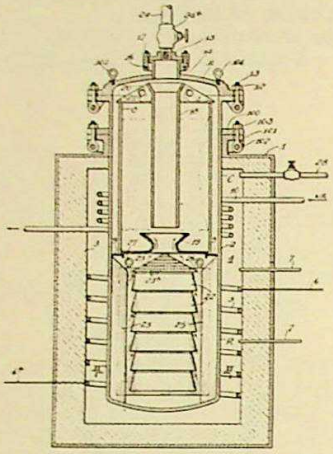
1. In combination, an outer gas tight shell being internally insulated, a vertical tubular retort disposed within said shell and sealed thereto, the upper end of the retort projecting outside the shell and having a releasable cover, heating means in the lower end of the shell for heating the lower end of the retort, cooling means in the upper end of the shell cooling the upper part of the retort, and separate vacuum connections for the shell and for the retort.

2,309,644

SUBLIMATION APPARATUS

Fritz J. Hansgirg, San Mateo, Calif., assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., a national banking association, as trustee

Application April 9, 1941, Serial No. 387,643
In Japan December 24, 1938
7 Claims. (Cl. 13—8)



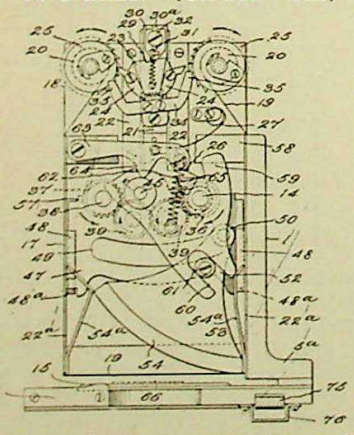
1. Sublimation apparatus comprising a pressure-tight outer shell, a pressure-tight container arranged within said shell and spaced therefrom to form an annular space therebetween, the lower portion of said container forming a sublimation retort member and the upper portion a condensing chamber member, means for heating said retort to make sublime sublimable contents of a charge of material contained therein, a condensing surface removably disposed in said chamber for condensation of sublimed material thereon, means for cooling said surface and condensing sublimed vapor thereon, means disposed in said retort adapted to provide a predetermined rate of vapor flow from the retort to the condenser chamber, and means for evacuating said container and said annular space to relieve stress on the outside of said container walls due to evacuating said container.

2,309,645

SALES REGISTER

Ronald J. Harrington, Brooklyn, and Franklin P. Shearer, Queens Village, N. Y.

Application August 21, 1940, Serial No. 353,482
20 Claims. (Cl. 101—212)



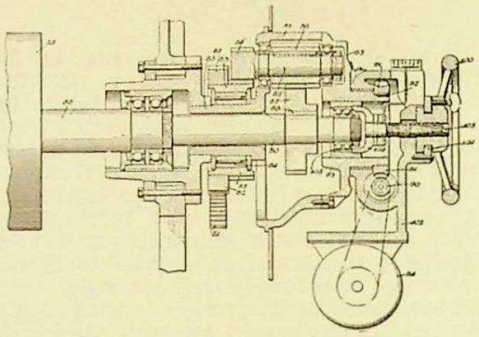
1. A printing device comprising a framework, a printing platform secured in fixed relation to said framework, said platform being adapted to support a printing plate having type, a platen having an arcuate presser plate, means for slidably and rockingly mounting said platen in said framework with said presser plate positioned to exert pressure against said type, and means for causing simultaneous sliding and rocking displacement of said platen in said framework thereby to rock said presser plate progressively across said type.

2,309,646

ADJUSTMENT FOR RUNNING REGISTERS

Charles Jacobson, New York, N. Y., assignor to S. & S. Corrugated Paper Machinery Company, Inc., Brooklyn, N. Y., a corporation of New York

Application September 29, 1939, Serial No. 297,052
4 Claims. (Cl. 74—395)



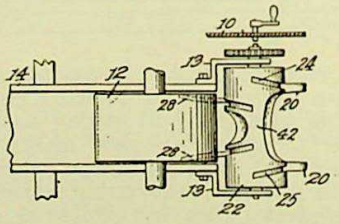
1. A running adjustment means for a driven shaft adapted to be rotated by a driving gear comprising a driving connection between said gear and said shaft, means for advancing and retarding said shaft without axial displacement thereof, said means comprising a housing surrounding and concentric with said shaft; a second gear rotatable on a bearing surrounding said housing and in engagement with said driving gear, said second gear being in driving engagement with a third gear carried within said housing, said third gear being in driving engagement wth a gear mounted on said shaft; said housing being rotatable; means for rotating said housing whereby the speed of rotation of the shaft is a component of the speed of the driving gear and the rotational speed of the housing.

2,309,647

ADJUSTABLE CLOTH GUIDE

Bliss M. Jones and Carl H. Streeter, Orange, Mass., assignors to Rodney Hunt Machine Company, Orange, Mass., a corporation of Massachusetts

Application February 6, 1942, Serial No. 429,772
20 Claims. (Cl. 26—21)



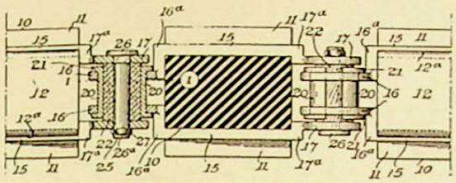
1. In a device of the class described, the combination of a movable element, means on said element forming a guideway adjustable in width; with a pair of spaced guiding members in extension of said guideway, and means associated with said movable element and effective to travel at least one of said guiding members relative to the other as said movable element is moved in a direction to vary the degree of spacing of said guiding members in accordance with the adjustment in width of the guideway.

2,309,648

POWER TRANSMISSION BELT

Hugh Williamson Kelly, Woodbridge, N. J., assignor to Sarah Eleanor Westergaard, Rahway, N. J.

Application October 1, 1941, Serial No. 413,200
5 Claims. (Cl. 74—236)



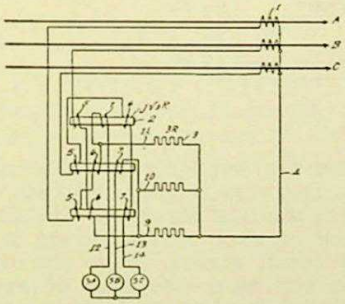
1. A power transmission belt comprising links with apertured end ears arranged in pairs and providing between them a substantially rectangular space, a wedge-shaped friction element of rectangular contour in plan detachably supported by said pairs of links; said friction element having a shouldered projection above the central plane thereof in the region of its greatest width under which the links lie in engaging position and said shouldered portion being less in width than the greatest width of the friction element, pivotal connections for the ends of said links including shouldered members between which the ears at one end of each pair of links is clamped, means serving to maintain said shouldered members in their engaging position and clamping the links against the shouldered projection of the friction element, and means for clamping the opposite ends of a pair of adjacent links with respect to the first-mentioned links.

2,309,649

PHASE-SEQUENCE RELAYING EQUIPMENT

Bernard E. Lenehan, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 30, 1941, Serial No. 424,937
16 Claims. (Cl. 172—245)



1. Phase-sequence electro-responsive equipment comprising: means for deriving a three-phase electrical quantity; a phase-sequence filter comprising a plurality of reactors and a plurality of resistors; circuit-means for energizing the resistors and the reactors from the various phases of the derived three-phase electrical quantity in such manner as to produce two sets of three-phase voltage-components, one responsive to resistor-drops and the other responsive to the differences between different pairs of reactor-drops; three equipment-circuits; and means for serially combining the corresponding phases of the two sets of three-phase voltage-components in such manner as to energize the corresponding phases of the equipment-circuits from the resultant voltages; the relative magnitudes of the voltage-components being such as to practically eliminate one of the rotational symmetrical components from the set of three resultant voltages, and the circuit-connections of the equipment-circuits being such as to substantially prevent the flow of zero-sequence current therethrough.

2,309,650

CONDENSATION OF CARBONYLIC COMPOUNDS

Sumner H. McAllister, Lafayette, and Vernon E. Haury, El Cerrito, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application February 12, 1940, Serial No. 318,506
18 Claims. (Cl. 260—593)

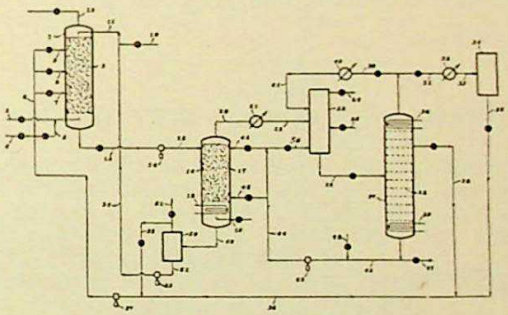
1. A process for the production of unsaturated ketone which comprises subjecting mesityl oxide to crotonaldehyde-type of condensation at a temperature of from about 120 to 140° C. in the presence of a concentrated aqueous solution of an alkali metal hydroxide while maintaining the concentration of hydroxide in aqueous solution substantially constant.

2,309,651

TREATMENT OF HYDROCARBON OIL

James H. McCullough and Edwin R. Birkhimer, Philadelphia, and Leonard N. Leum, Upper Darby, Pa., assignors to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

Application February 13, 1941, Serial No. 378,830
5 Claims. (Cl. 196—32)



1. The method of removing acidic organic compounds from hydrocarbon oil containing the same, which comprises introducing an aliphatic alcohol containing less than 4 carbon atoms per molecule into a stream of said hydrocarbon oil, and countercurrently contacting the said oil stream with a stream of an aqueous solution of an alkaline reagent in which said alcohol is more soluble than in the hydrocarbon oil, whereby the alkaline reagent will admix with the alcohol in the oil stream and the mixture will act upon the oil stream to remove acidic organic compounds therefrom, the point of introduction of said alcohol being in advance of the point of introduction of said alkaline reagent and sufficiently removed therefrom to effect extraction of entrained alcohol from the oil stream.

2,309,652

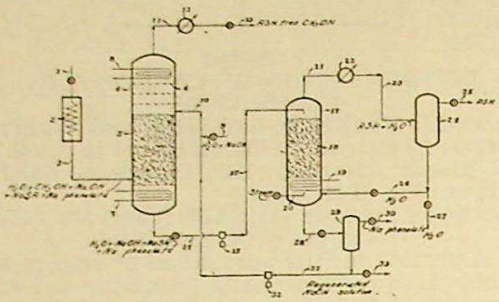
REMOVAL OF MERCAPTANS FROM MERCAPTAN-SOLVENT MIXTURES

Leonard N. Leum, Upper Darby, and Edwin R. Birkhimer, Philadelphia, Pa., assignors to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

Application March 21, 1941, Serial No. 384,604
7 Claims. (Cl. 202—67)

1. The method of separating mercaptans from a lower aliphatic alcohol containing same, which

comprises countercurrently contacting said alcohol containing mercaptans, substantially in the vapor phase, with an aqueous solution of an



alkaline reagent at a temperature sufficiently elevated to prevent condensation of said alcohol vapors.

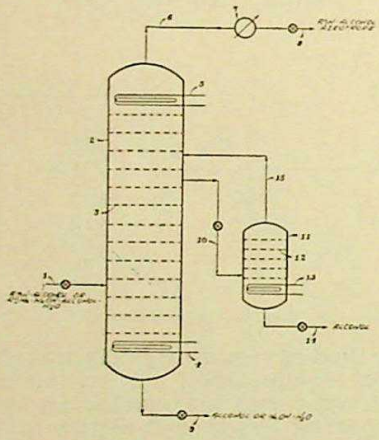
2,309,653

REMOVAL OF MERCAPTANS FROM MERCAPTAN-SOLVENT MIXTURES

Leonard N. Leum, Upper Darby, and Edwin R. Birkhimer, Philadelphia, Pa., assignors to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

Application March 21, 1941, Serial No. 384,605

3 Claims. (Cl. 202—42)



1. The method of separating mercaptans from a lower aliphatic alcohol containing same, said alcohol being in excess of the amount necessary to form an azeotrope with said mercaptans, which comprises heating the mercaptan-alcohol mixture to a temperature sufficient to vaporize therefrom a mercaptan-alcohol azeotrope having a boiling point below that of said alcohol, and separating the vaporized azeotrope from the alcohol having a substantially reduced mercaptan content.

2,309,654

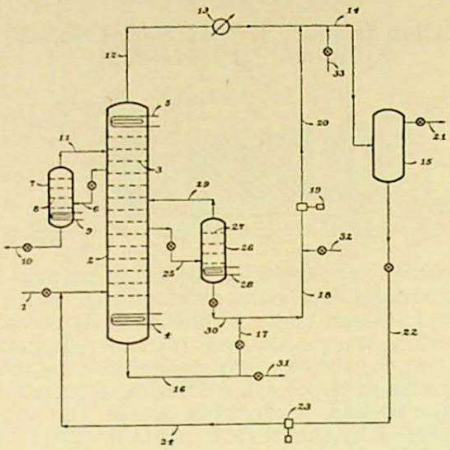
REMOVAL OF MERCAPTANS FROM MERCAPTAN-SOLVENT MIXTURES

Leonard N. Leum, Upper Darby, and Edwin R. Birkhimer, Philadelphia, Pa., assignors to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

Application March 28, 1941, Serial No. 385,656

6 Claims. (Cl. 260—609)

1. The method of separating mercaptans from a lower aliphatic alcohol containing same, which comprises commingling with the mercaptan-alcohol mixture sufficient water to cause said mixture to form two liquid phases, one comprising predominantly mercaptans and the other com-



prising alcohol and water, and separating the liquid phases from one another.

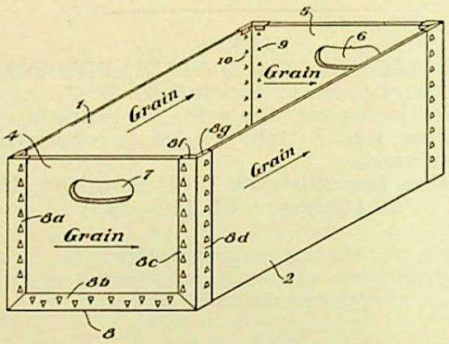
2,309,655

METAL BOUND BOX

Roy F. McMahan, Louisville, Ky.

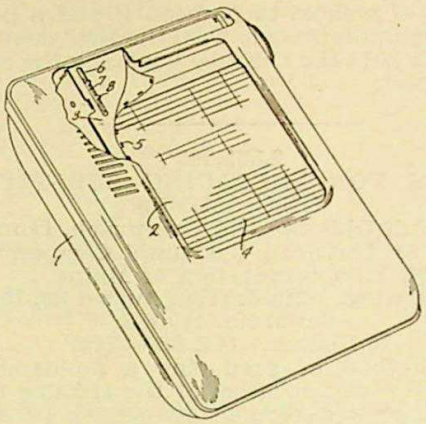
Application October 15, 1938, Serial No. 235,129

6 Claims. (Cl. 217—69)



1. A box having securing means consisting of a pair of longitudinal "side, bottom, end and corner," metal binding-straps of angular formation, one face of each strap having a plurality of fastening teeth struck from the metal and integral with the said one face of each strap, said fastening teeth of each strap extending into and through the respective sides and bottom of the box and having their free end portions arched longitudinally thereof and curled into the respective inside surfaces of the same, so as to fasten the said sides and bottom together; the other face of each strap also having a plurality of fastening teeth struck from the metal and integral with the said other face of each strap, the latter said teeth of each strap extending into and through the conjoining end of the box and having their free end portions arched longitudinally thereof and curled into the respective inside surfaces thereof, so as to fasten the ends of the box to the sides and bottom, the arched teeth thus forming the sole means for securing the sides, bottom and ends together; and a concave corrugation struck transversely in the arched end of each tooth for securing the same to its curled condition.

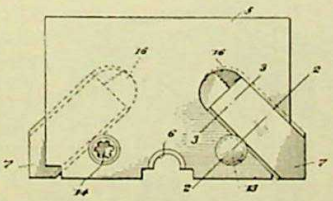
2,309,656
PIN WHEEL FEED
Albert W. Metzner, Dayton, Ohio, assignor to The Standard Register Company, Dayton, Ohio, a corporation of Ohio
Application December 9, 1937, Serial No. 179,021
11 Claims. (Cl. 271—2.3)



1. In a pin type feeding device for feeding continuous strips of material having therein longitudinally spaced holes, a toothed disc, the teeth of which are progressively engageable in the spaced holes in the strips and a pair of spaced mounting discs spaced apart a distance greater than the thickness of the toothed disc between which the toothed disc is interposed and with which the toothed disc is connected for unison rotation.

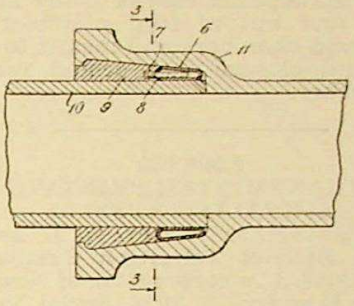
8. As an article of manufacture, a record strip to receive a succession of written or imprinted legends having therein a succession of longitudinally spaced elongated slots in close proximate relation to and having their major axes parallel with the longitudinal margin of the strip for progressive engagement thereof of a series of traveling flattened feeding pins by which the strip is advanced past a record receiving position.

2,309,657
ROTARY CUTTER
Frank P. Miller, Meadville, Pa.
Original application November 16, 1937, Serial No. 174,879. Divided and this application February 12, 1940, Serial No. 318,585
6 Claims. (Cl. 29—105)



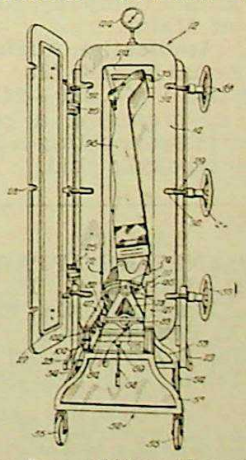
1. In an inserted blade cutter, a body having a slot, said body having a bore therein adjacent the slot and opening through a wall thereof, a locking screw having an end portion threaded in a part of said bore, a plurality of conic bearing surfaces arranged on the other end portion of the screw as a concentric, longitudinal series, and a blade non-rotatably mounted in said slot and having in one side thereof a series of parallel, longitudinal serrations meshed with the conic bearing surfaces of the screw whereby the blade is securely wedged in place when the screw is advanced to locking position.

2,309,658
PACKING DEVICE
Thomas S. Miller, Rome, N. Y., assignor to Water & Sewer Equipment Corporation, Rome, N. Y., a corporation of New York
Application June 6, 1939, Serial No. 277,600
10 Claims. (Cl. 285—115)



9. The method of sealing water mains and the like between the overlapping ends of adjoining sections of the mains which comprises placing within the space provided by said overlapping ends an annular inflatable ring having an inflation valve positioned in one lateral edge of the ring and disposed for the most part within said inflatable ring with only a limited portion of the valve extending exteriorly of said edge of the ring, the ring having a protective covering disposed on the same lateral edge of the ring, inflating the ring, and filling the void remaining between the overlapping ends with a fused sealing material covering and sealing the extending portion of the inflation valve.

2,309,659
MACHINE FOR SETTING THE SHAPE OF TEXTILE ARTICLES
Thomas W. Prosser, Riverside, Calif., and John H. Wahlbeck, Kankakee, and Leslie H. Oswald and Leonard S. Kleinfeld, Chicago, Ill., assignors to Paramount Textile Machinery Co., Chicago, Ill., a corporation of Illinois
Application February 12, 1940, Serial No. 318,448
5 Claims. (Cl. 223—76)



1. Apparatus for setting the shape of textile articles comprising in combination: a group of forms to receive the articles; a closable chamber to receive said forms as a group; a rocker arm individual to each said form for supporting the same and permitting movement of said forms singly or plurally from a normal position to a boarding and stripping position, comprising a boss provided with a circular hole and two extensions integral with said boss together forming the supporting portion; a mobile carrier for said

forms including a shaft common to all said arms and a stop bar common to all said arms, said shaft receiving thereon all said arms by the hole therein for pivotal movement thereabout from one said position to the other, and said bar being adapted to be engaged by said extensions to limit the movement of said forms from one said position to the other, said carrier being adapted to move into and out of said chamber; closure means for said chamber; and means to lock said chamber and closure into sealed relationship with each other.

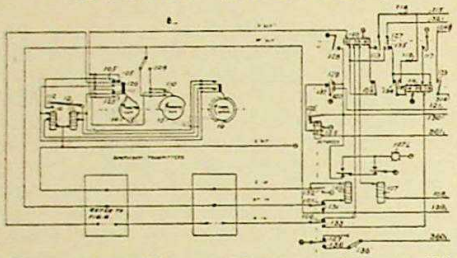
2,309,660

UNIT TRANSMITTER PRINTING AND SIGNALING SYSTEM

Manfred W. Muehter, Nutley, N. J., assignor to American District Telegraph Company, Inc., Jersey City, N. J., a corporation of New Jersey

Application January 12, 1938, Serial No. 184,595

43 Claims. (Cl. 234—27.5)



35. In a signaling system, a transmitter for transmitting in succession a code comprising a certain arrangement of current impulses and another code comprising a different arrangement of current impulses, a recording device controlled in accordance with the codes, and means controlled in accordance with the first digit transmitted for controlling the recording device to effect conversion of one of the codes to the other code.

2,309,661

PROCESS OF PREPARING GUANAMINES

Daniel Elmer Nagy, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 30, 1941, Serial No. 409,128

8 Claims. (Cl. 260—248)

1. A method of preparing a carbamylguanamine which comprises reacting a biguanide and an imide of a dicarboxylic acid.

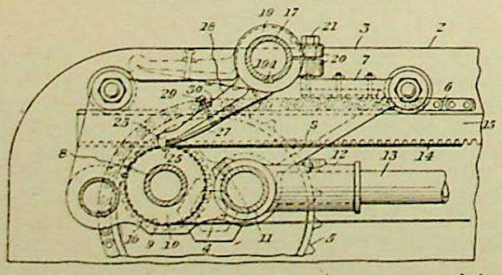
2,309,662

SHEET HANDLING APPARATUS

Andrew Neuhart, Pittsburgh, Pa., assignor to Miller Printing Machinery Co., Pittsburgh, Pa., a corporation of Pennsylvania

Application May 15, 1941, Serial No. 393,555

20 Claims. (Cl. 271—50)



1. Sheet handling apparatus comprising a movable carrier against which a sheet being handled is adapted to rest and means on the carrier for positioning the sheet comprising an arm having a stop portion adapted to engage an edge of the sheet and a holding portion adapted to hold the sheet in place on the carrier by engaging a face of the sheet and pressing the sheet against the carrier.

8. A gripper comprising a portion to engage the edge of a sheet to position it and a portion operable simultaneously with the first mentioned portion to hold the sheet by engaging the surface of the sheet.

2,309,663

PROCESS FOR PREPARING SUBSTITUTED GUANAMINES

Wilbur Null Oldham, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 30, 1941, Serial No. 409,138

10 Claims. (Cl. 260—248)

1. A method of producing a guanamine in which the 4-carbon atom of the triazine ring is attached by a carbon-to-nitrogen bond to the radical of a cyclic amine and the 6-carbon atom of the triazine ring is attached to a radical of the group consisting of amine, alkyl amines and cyclic amines through a carbon-to-nitrogen bond which comprises reacting a correspondingly substituted biguanide with an ester of a carboxylic acid in the presence of an alkali metal alkoxide.

2,309,664

METHOD OF PREPARING GUANAMINES

Wilbur Null Oldham, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 30, 1941, Serial No. 409,150

12 Claims. (Cl. 260—248)

1. A method of preparing 2-substituted guanamines which comprises reacting a biguanide with a glyceride of an aliphatic acid.

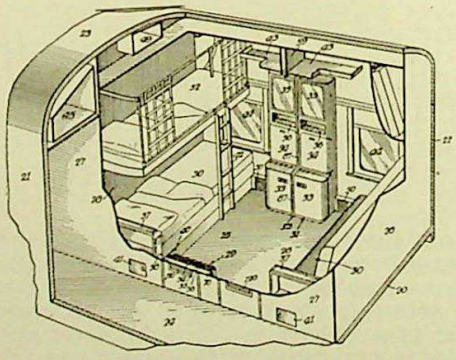
2,309,665

RAIL CAR

Peter Parke, Chicago, Ill., assignor to The Pullman Company, Chicago, Ill., a corporation of Illinois

Application May 29, 1939, Serial No. 276,438

7 Claims. (Cl. 105—315)



1. In a railway car, a side wall and an aisle wall defining the longitudinal sides of a pair of contiguous rooms, a door for each room in the aisle wall, permanent transverse partitions connecting said walls and each defining an opposite end of one of the rooms, a bed positioned in each room adjacent to the permanent parti-

tion thereof, similar toilet facilities in the two rooms adjacent to the side wall and to each other and projecting into the rooms, the top surfaces of the toilet facilities being disposed below the eye level of persons normally seated in the room, door jamb means mounted between said toilet facilities and extending from the floor upwardly toward the room ceiling and in the region above the toilet facilities being spaced from the innermost edge of the toilet facilities toward the side wall a distance substantially corresponding to the depth of the toilet facilities, and a multi-panel, foldable partition hinged to the aisle wall between the two doors therein, said partition being foldable against one of said doors to convert the two rooms into one large room with said beds being oppositely disposed and substantially free of any intermediate partition obstruction to provide a maximum amount of unobstructed floor space between said oppositely disposed beds and being extensible to engage said door jamb means for dividing said one large room into two rooms.

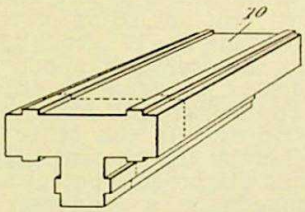
2,309,666

METHOD OF FORMING STANDARD BLANKS AND A VARIETY OF FINISHED UNITS THEREFROM

Arthur L. Parker, Cleveland, Ohio

Application July 10, 1939, Serial No. 283,705

5 Claims. (Cl. 29—157)



1. The method of forming finished metal units of various selected designs, which consists in extruding a bar with transversely aligned leg portions and with at least one intermediate projection at substantially right angles thereto whereby the transverse cross section of the bar generally approximates the corresponding cross section of the general design of the finished units, cutting a slug from the bar transversely thereof, die-shaping the slug to provide a standard blank with non-circular parts around the leg portions and with a projecting portion extending axially of the leg portions beyond the non-circular parts thereon whereby the standard blank more nearly conforms with the general design of the various finished units, and finally externally and internally machine working the standard blank to transform the leg portions and the intermediate projection into the exact form of finished unit of a selected design.

2,309,667

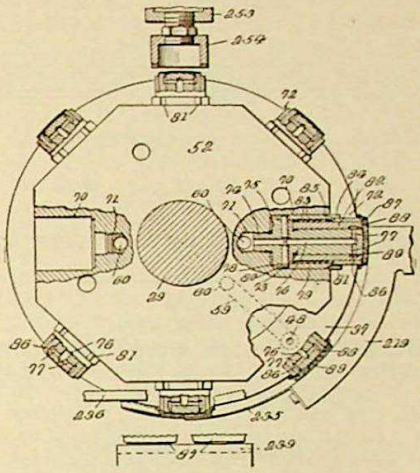
MACHINE FOR FORMING AND AFFIXING CENTER SPOTS TO CROWN CAPS

Paul E. Pearson, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application October 28, 1938, Serial No. 237,534

35 Claims. (Cl. 113—80)

25. In a machine of the character described, a spot forming station, a spot applying station, a head rotatable about a horizontal axis and having a plurality of rows of spot carrier units, the units of each row being disposed with their axes projecting radially from said head, means for temporarily holding a spot centered on the exposed end of each unit, means for punch-forming and directly presenting heat fusible adhesive bearing spots to the units at the forming station, means for stationarily supporting crown caps at the spot applying station in position to be entered by the spot holding ends of successively



presented rows of the units as they are moving into the spot applying station, and means for directly applying heat to the exposed adhesive bearing faces of the spots held on said units while moving toward the spot applying station.

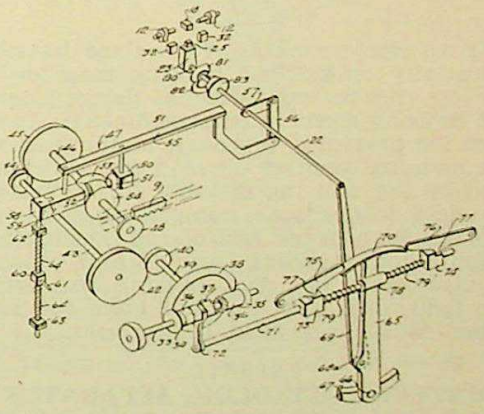
2,309,668

GRINDING MACHINE

John E. Poorman, Philadelphia, Pa.

Application November 10, 1941, Serial No. 418,569

27 Claims. (Cl. 51—231)



2. In a grinding apparatus, a material supporting table, power means for operating the table, reversing mechanism for the power means, and associated mechanical elements constituting means for controlling the reversing means by the power means while preventing any power means operating effect on the table.

2,309,669

GRINDING MACHINE

John E. Poorman, Philadelphia, Pa.

Application November 13, 1941, Serial No. 418,979

21 Claims. (Cl. 51—231)

4. In a grinding apparatus, a material supporting table, power means for operating the table in both directions, a stop for stopping table movement, reversing mechanism for the power means, and an element of the power means for

operating the table and mounted for independent movement with respect to the table after the

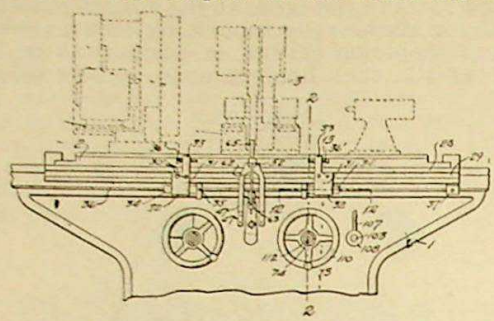
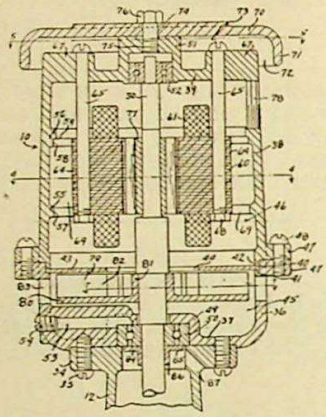


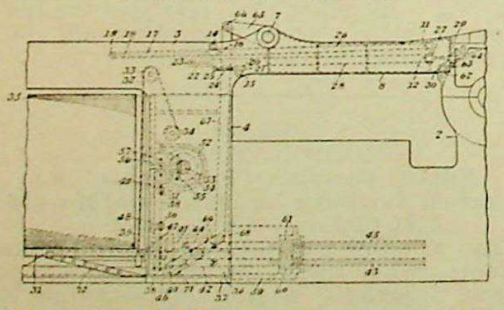
table is stopped for actuating the reversing mechanism.

2,309,670
MOTOR HOUSING
Edward J. Ruthman, Cincinnati, Ohio
Application July 15, 1940, Serial No. 345,471
8 Claims. (Cl. 172—36)



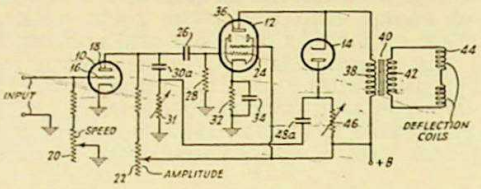
1. In an electric motor of the class described a substantially cylindrical housing member open at its top and bottom, a radial flange interiorly of the housing member intermediate its top and bottom for providing a seat, a motor field within the housing member on said seat, and means carried by the housing member for securing the motor field to the seat, comprising a cross bar across the open upper end of the housing member, and bolts extending through and depending from said cross bar and passing through the motor field, and nuts on said bolts for rigidly securing said motor field in the seat.

2,309,671
MATERIAL HANDLING APPARATUS
August A. Saul, Pittsburgh, Pa., assignor to Miller Printing Machinery Co., Pittsburgh, Pa., a corporation of Pennsylvania
Application August 23, 1940, Serial No. 353,871
32 Claims. (Cl. 271—45)



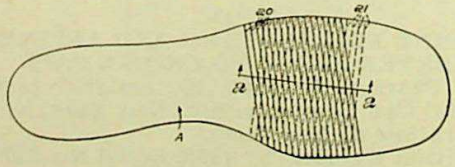
1. Material handling apparatus comprising a body, a material handling portion pivoted thereto, the body being movable, and means for pivotally moving the material handling portion about its pivotal connection with the body upon movement of the body.

2,309,672
CATHODE RAY BEAM DEFLECTING CIRCUIT
Otto H. Schade, West Caldwell, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 21, 1940, Serial No. 325,207
3 Claims. (Cl. 250—27)



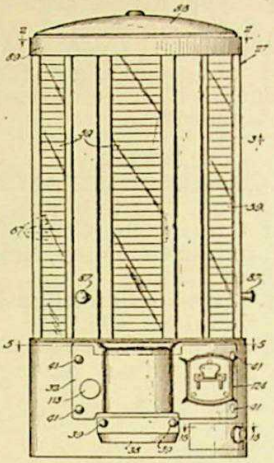
1. A deflection generator comprising means for producing voltage variations of substantially saw-tooth wave form, an amplifier tube including a cathode, a control electrode and an anode, means for impressing the voltage variations upon the control electrode of said amplifier tube, a load circuit including cathode ray beam deflection coils coupled to the anode of said amplifier tube, an asymmetric unit including two electrodes, means for connecting one electrode of said asymmetric unit to the amplifier anode end of the load circuit, means including an adjustable impedance for connecting the other electrode of said asymmetric unit to the other end of the load circuit whereby the current passed by said asymmetric unit will produce potential variations across said impedance, a condenser and a resistance connected in series between the said other electrode of said asymmetric unit and a point of fixed potential, and means including a condenser for coupling the control electrode of said amplifier tube to the junction of said condenser and resistance whereby the potential variations produced across said impedance will be superimposed upon the voltage variations of saw-tooth wave form.

2,309,673
INNERSOLE FOR SHOES
William M. Schlear, Orwigsburg, Pa., assignor, by mesne assignments, to Henry G. Lumbard, Auburn, Maine
Original application June 28, 1938, Serial No. 216,327, now Patent No. 2,249,092, dated July 15, 1941. Divided and this application May 10, 1941, Serial No. 392,893
7 Claims. (Cl. 36—43)



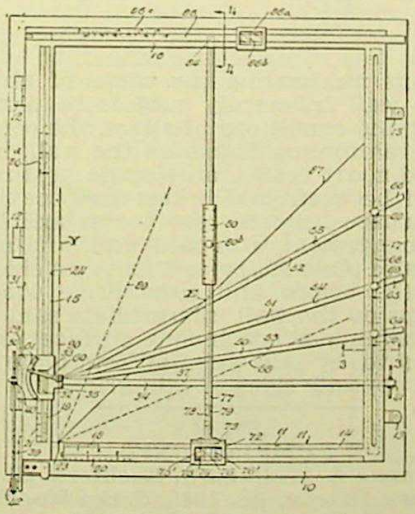
1. A flexible inner sole transversely slashed in both surfaces thereof at the ball portion with the slashes in the upper surface of the sole arranged to intersect the slashes in the lower surface, the slashes in the lower surface extending at an angle to the direction of the slashes in the upper surface.

2,309,674
VENDING MACHINE
Meyer E. Schloff, Chicago, Ill., assignor of one-half to Henry J. Bobbe, Chicago, Ill.
Application July 19, 1941, Serial No. 403,105
6 Claims. (Cl. 312—64)



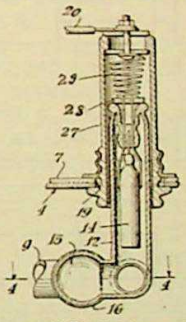
1. In a vending machine having a hollow base unit having a side wall opening, a superposed compartment for articles to be dispensed by the machine, and a standard mounted upright in said base unit to provide support for said compartment; a unitary sub-structure comprising a cover plate for said side wall opening and having an article discharge passage communicating with the interior of said base unit through said side wall opening when the cover plate is in closing relation with said opening, and extension means upon the inner side of said plate for connection with said standard to brace the same, a portion of said extension means being in the form of a feeding apron sloping downwardly communicatively with said passage.

2,309,675
MANAGEMENT INSTRUMENT FOR BUSINESS
Alfred F. Schlomann, New York, and Alfred Schwarz, Rochester, N. Y.; said Schwarz assignor to said Schlomann
Application September 12, 1940, Serial No. 356,432
23 Claims. (Cl. 33—98)



1. A management instrument for a business comprising a first fixed member indicative of the first axis of a rectangular co-ordinate system, a second fixed member in rigid connection with said first member and extending parallel to the second axis of said system, said members including turnover and cost scales respectively of constant increments, an element in fixed relationship to said first and second members and indicative of a first straight line extending from the zero point of said system and inclosing with the first axis of the system an angle whose tangent is equal to the quotient of the increment of the scale of said second member divided by that of said first member, and a movable member indicative of a second straight line having a variable point of intersection with said second axis of said system, said movable member being adjustable as to the distance of said variable point from said zero point and as to the inclination of said other straight line in angular relation to the axes of said system, whereby the intersection of said straight lines indicates the break-even point of a business, and, the distance, parallel to said second axis, of any point of said second straight line from said first straight line is a measure for the profit or loss incidental with the turnover according to the distance of such point from said second axis, when the distance of said variable point of intersection from said zero pont is adjusted according to the constant costs, and another point of said second straight line is adjusted according to the total costs incidental with a selected turnover of said business.

2,309,676
FLUORESCENT LAMP
Gilbert T. Schmidling, New York, N. Y., assignor of one-half to Charles Melzak, Yonkers, N. Y.
Application December 12, 1939, Serial No. 308,795
10 Claims. (Cl. 176—122)

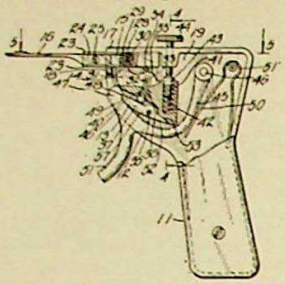


1. In a fluorescent lighting device, the combination of a fluorescent tube for a lighting fixture having an offset protuberance adjacent one end thereof, fluorescent oxide material adhered to the inside of the tube, and heat absorbing means in engagement with said protuberance to minimize discoloration of the coating on the inside of the tube.

2,309,677
LOCK PICKING GUN
Samuel Segal, Brooklyn, N. Y.
Application May 5, 1939, Serial No. 271,996
6 Claims. (Cl. 81—3)

1. In an impact delivering device, a casing having upper and lower stops, a vertically displaceable shoe movable between said stops, a pick carried by said shoe and extending laterally of said casing, a pivoted hammer within said casing and having a shoulder, a power helicoidal spring within said hammer, adjustable means carried by said casing and cooperating with said spring for holding said hammer against said shoe to normally hold the latter against said upper stop, a pawl pivoted to said hammer and having a forward portion, spring means normally urging said forward portion of said pawl out of said hammer, a trigger pivotally sustained within said casing and having a catch, a leaf spring for normally hold-

ing said catch to interlock with said portion, and a manipulator carried by said trigger for operating the latter to shift said pawl to rearwardly and



pivotally displace said hammer away from said shoe whereby the latter falls by gravity against said lower stop and whereby said adjustable means compresses said power spring until said shoulder is free of said forward portion of said pawl.

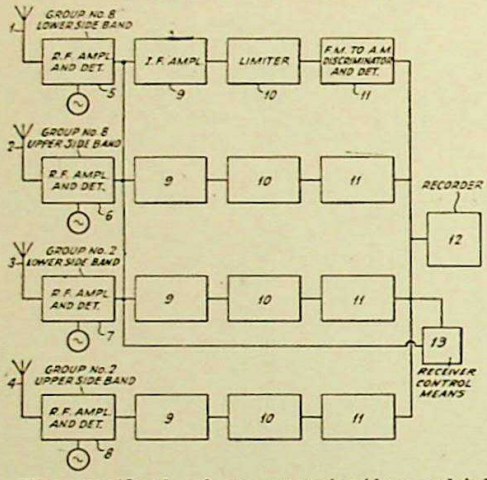
2,309,678

FREQUENCY MODULATION SYSTEM

James E. Smith, Brooklyn, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application August 31, 1940, Serial No. 354,984

10 Claims. (Cl. 250—6)



1. The method of communicating which includes modulating the frequency of a carrier by a sub-carrier, shifting the frequency of the sub-carrier in accordance with the amplitude of the modulating signal to produce a wave having a plurality of spaced frequency modulated carriers each composed of a group of side bands containing the same intelligence, radiating the said frequency modulated carriers, receiving separately from one another certain ones of said frequency modulated carriers, separately limiting and detecting said received frequency modulated carriers, and combining the resultant detected energies.

2,309,679

PROCESS OF PREPARING GUANAMINES

Jack Theo Thurston, Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 30, 1941, Serial No. 409,126

12 Claims. (Cl. 260—248)

1. A method of preparing guanamines included in the group consisting of N-unsubstituted guanamines and N-alkyl substituted guanamines which comprises reacting the corresponding biguanide with an ester of the corresponding acid in the presence of a metal alkoxide.

2,309,680

HYDROXY-SUBSTITUTED GUANAMINES

Jack Theo Thurston, Cos Cob, and Donald William Kaiser, Springdale, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 30, 1941, Serial No. 409,129

10 Claims. (Cl. 260—248)

1. A method of producing hydroxy substituted guanamines which comprises reacting a lactone with a biguanide.

2,309,681

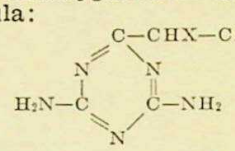
BETA-ALKOXYGUANAMINES

Jack Theo Thurston, Cos Cob, and Margaret H. Bradley, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 30, 1941, Serial No. 409,133

10 Claims. (Cl. 260—248)

1. Beta-alkoxyguanamines having the following formula:



in which Alk is alkyl and X and Y are members included in the group consisting of H and alkyl.

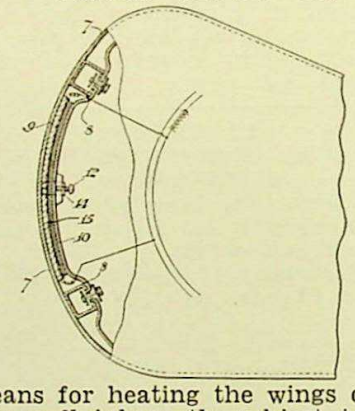
2,309,682

MEANS FOR HEATING WINGS OF AIRPLANES

Gerrit Van Daam, Buffalo, N. Y.

Application June 27, 1939, Serial No. 281,332

1 Claim. (Cl. 219—19)



In means for heating the wings of airplanes having a wall inherently subject to distortion under varying conditions of stress, the combination of a reinforcing frame on the wall, including spaced apart beams, an electric heating grid positioned between said beams and coextensive with the space between said beams and having surface engagement with said wall, and a resilient pressure plate supported, as to its side margins, by the beams and coextensive with said grid, means on the wall intermediate said beams for maintaining a continuous surface pressure upon the grid, by said wall and said plate which cover the opposite sides of said grid.

2,309,683

PUMPING UNIT

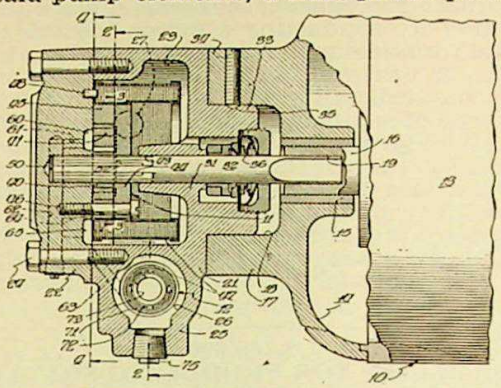
Gunnar A. Wahlmark, Rockford, Ill.

Application October 25, 1940, Serial No. 362,814

15 Claims. (Cl. 103—42)

1. A pump of the rotary element type comprising a pump housing including a main casing member forming an intake chamber and having an open end and a removable closure for the

open end of said main casing member, means carried by said end closure and forming therewith a pump chamber, rotary pump elements mounted in said pump chamber, a shaft for driving said pump elements, a fluid intake port and



a fluid discharge port leading to and from said pump chamber, and an auxiliary intake port formed in said end closure for supplying additional fluid to the pump elements intermediate the intake and discharge ports.

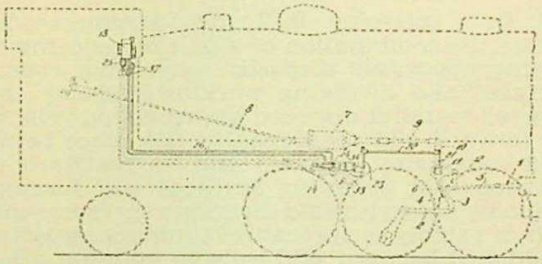
2,309,684

DRIVING MECHANISM FOR VALVE CUTOFF INDICATORS

Fay D. Welden, Tuckahoe, N. Y., assignor to Valve Pilot Corporation, New York, N. Y., a corporation of New York

Application December 5, 1941, Serial No. 421,761

8 Claims. (Cl. 105—48)



1. In a steam locomotive having means for varying cut-off, a cut-off indicator in the cab of the locomotive, means at the indicator for converting into a single expression factors governing cut-off which produce the maximum results at different speeds, means for actuating the indicator by the converting means, and means for actuating the converting means in response to variations in cut-off.

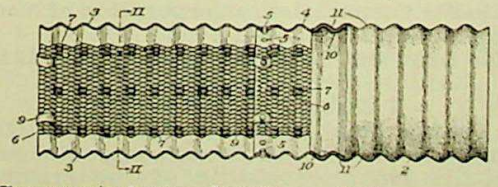
2,309,685

CULVERT

Edward L. Westwood, Wheeling, W. Va., assignor to Wheeling Steel Corporation, Wheeling, W. Va., a corporation of Delaware

Application January 27, 1941, Serial No. 376,065

9 Claims. (Cl. 138—70)



1. Corrugated pipe having a lining comprising preformed corrugated sheet material, spaced apart individual spacers spacing the material of the lining from the metal of the pipe and plastic material at least partially covering the material of the lining.

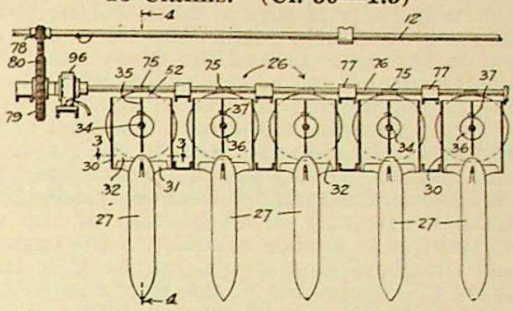
2,309,686

BOMBING MECHANISM FOR AIRCRAFT

David L. Winters, Los Angeles, Calif.

Application September 8, 1941, Serial No. 410,003

13 Claims. (Cl. 89—1.5)



1. In an aircraft, in combination, a bomb support on the aircraft; a bomb having adjustable means for reducing the horizontal component of its fall when the bomb is released from the support during flight of the aircraft; a sighting device on the aircraft; means operable in synchronism with the propeller of the aircraft, to effect a predetermined adjustment of the first said means by increasingly varying its fall retarding effect upon the bomb upon training said sighting device on a target at a predetermined sighting angle; and means for releasing the bomb.

9. In bombing mechanism, in combination, a bomb having a speed retarding element; a shaft pivoted on the bomb and supporting said element for pivotal adjustment to vary its retarding action; a pair of supporting members co-acting with said shaft to releasably suspend the bomb; one of said supporting members being rotatably mounted to adjust said retarding element and being axially movable to release said shaft; means for axially moving said shaft as aforestated; and means for releasing said shaft from the other supporting member.

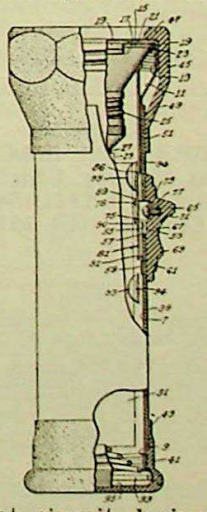
2,309,687

FLASHLIGHT

Orville T. Wood, Clinton, Mass., assignor to Blake Manufacturing Corporation, Clinton, Mass., a corporation of Massachusetts

Application February 16, 1940, Serial No. 319,208

6 Claims. (Cl. 240—10.66)



1. In a flashlight, circuit closing means capable of being dismantled without the use of tools comprising the combination with an open ended tubular casing formed with an opening intermediate its ends, a slide disposed wholly on the outer sur-

face of the casing and movable over the opening, a tubular sleeve, rectangular in cross-section, disposed in the opening and comprising an outer side secured to the slide, side walls extending through the opening and an inner side within the casing in radially spaced relation to the slide, a resilient contact strip within the sleeve and supported on the inner side of the sleeve and formed remote from one end of the sleeve with an outwardly offset portion in spaced relation to the sleeve and engaging the casing and also formed remote from the opposite end of the sleeve and spaced therefrom with an outwardly offset portion engaging the casing to thereby place the intermediate inwardly offset portion of the strip under tension in spaced relation to the casing in position in the sleeve, means on the strip interengaging the inner side of the sleeve to hold the strip in position in the sleeve whereby said strip may be disengaged from the sleeve by a finger inserted through the open end of the casing and pressing the intermediate portion outwardly toward the casing and out of engagement with the sleeve.

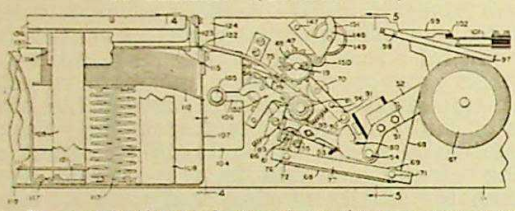
2,309,688

TICKET PRINTER

Walter J. Zenner, Des Plaines, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Application March 8, 1941, Serial No. 382,367

17 Claims. (Cl. 178—29)



1. In a printing telegraph system, a segmented distributor, a set of distributor brushes, a type wheel, a shaft on which said set of brushes and said type wheel are carried, driving means for said shaft, a printing magnet, means to cause printing from said type wheel upon the energization of said printing magnet, a circuit for said printing magnet including said set of brushes and a segment of said distributor, a signal storing means, means to connect the segments of said distributor individually to said storing means, and means for successively transferring stored signals over said connecting means to said distributor to cause the printing of intelligence.

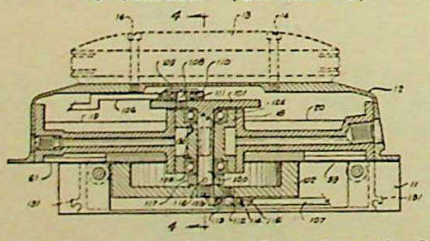
2,309,689

VIBRATORY MACHINE

Ernst Ahlskog, Chicago, Ill.

Application April 18, 1941, Serial No. 389,117

9 Claims. (Cl. 121—3)



1. In a machine of the class described, a valve block, a plurality of pairs of fluid actuated motors of which the motors in each pair are oppositely disposed with respect to said block and of which motors each includes a member reciprocal in a path parallel with similar paths of the members in the other motors, work members respectively connected with each pair of reciprocal members in said pairs of motors, said work members having working surface portions substantially in a common plane in parallelism with said paths of reciprocal movement, said valve block having passages for conducting a motor actuating fluid to and from said motors, valve core means in said block for controlling the flow of fluid through said passages, valve gear means driven from at least one of said motors and connected with said valve core means for operating the same, pursuant to operation of the device, to direct such fluid through said passages alternately to the motors in each pair and in such phase relation that the paired reciprocal members connected with one work member are caused to move oppositely to a second pair of such members and the work member connected therewith.

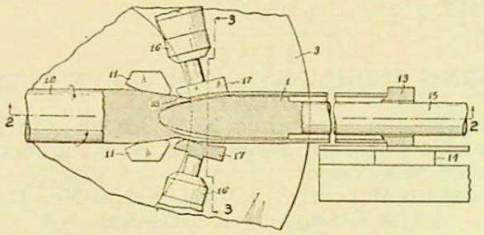
2,309,690

APPARATUS FOR PRODUCING SEAMLESS TUBES

Andrew J. Aiken, Cleveland, Ohio

Application August 21, 1940, Serial No. 353,487

2 Claims. (Cl. 80—13)



1. In a piercing mill for forming seamless tubes; the combination of a pair of reducing rolls having oppositely disposed converging reducing surfaces and diverging working surfaces and a tapered mandrel disposed between said rolls with its forward end positioned in the space between said converging surfaces and its rearward part between said diverging surfaces and forming a reducing pass with said diverging surfaces; with a pair of rapidly reciprocable hammers respectively positioned between said rolls on opposite sides of said mandrel, each of said hammers having a surface adapted to work the bulging portion of the tube in said reducing pass against the surface of the mandrel within the pass to control the directional flow of metal imparted to the tube in the reducing pass, said hammers being mounted upon axes that are inclined rearwardly with respect to the forward travel of said tube, the working surfaces of said hammers having a contour substantially the same as the contour of the outer surface of the portion of the mandrel within said reducing pass.

2,309,691

PREPARATION OF QUATERNARY ONIUM COMPOUNDS

James L. Brannon, Plainfield, N. J., assignor to Bakelite Corporation, a corporation of New Jersey

No Drawing. Application March 8, 1941, Serial No. 382,344

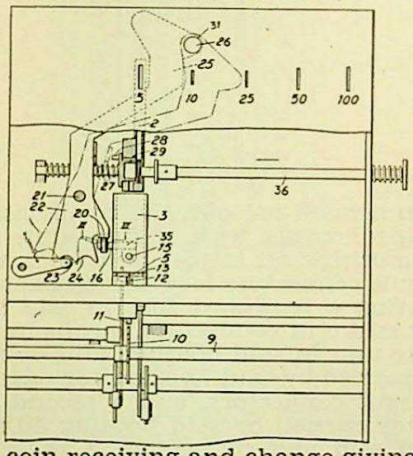
7 Claims. (Cl. 260—440)

1. Process of preparing a basic derivative of a quaternary substituted onium compound selected from the group consisting of the ammonium, phosphonium, arsonium, stibonium and sulphonium compounds which comprises reacting a salt of the compound with a metal hydroxide and a phenol, the phenol being present in sufficient amount to act as a solvent extracting medium for the phenate that is formed.

2,309,692
SULPHUR POLYMER PLASTIC COMPOSITIONS
Martin B. Chittick, Wilmette, Ill., and Paul Vincent McKinney, Pittsburgh, Pa., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application December 6, 1939, Serial No. 307,812
6 Claims. (Cl. 260—79)

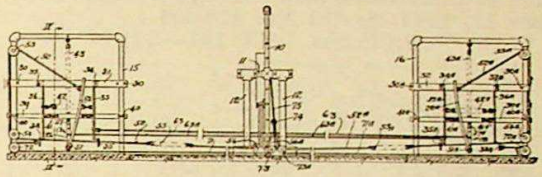
1. The method of preparing a solid plastic composition which comprises mixing sulphur with hydrocarbon polymer resulting from the selective polymerization by means of catalytic clay of gum-forming and color-imparting bodies in petroleum hydrocarbon distillates so that the mixture contains from 15 to 45% by weight of sulphur in chemical combination, and heating the mixture to a temperature sufficiently high within the range of 200° F. to 305° F. for a period of time between 4 and 15 hours sufficient to produce a chemical reaction product which upon cooling forms a hard solidified mass.

2,309,693
COIN CHANGING VENDING MACHINE
Tord Olof Rickard Dahlberg, Nockeby, Sweden, assignor to Kooperativa Förbundet Förening U. P. A., Stockholm, Sweden
Application January 10, 1940, Serial No. 313,198
In Sweden January 14, 1939
3 Claims. (Cl. 194—80)



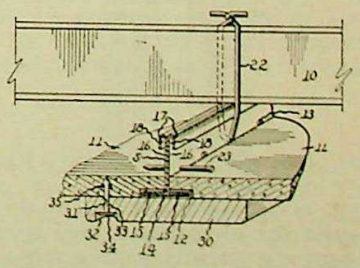
1. In a coin receiving and change giving mechanism comprising, for each coin denomination, a coin receptacle to accommodate a pile of coins, a coin chute leading to said receptacle and being provided with a coin receiving slot, and coin ejecting means to deliver coins of said denomination from said receptacle, a shiftable element, a resilient drive for said element operable to urge displacement thereof in one direction, said element having a portion disposed normally in front of an aperture provided in the wall of a receptacle for coins of a lower denomination at a predetermined level to substantially prevent displacement of said element upon operation of said resilient drive when the pile of coins in said receptacle projects above said predetermined level and to penetrate into said coin receptacle, thereby permitting displacement of said shiftable element by said resilient drive when the latter is operated while the uppermost coin of said pile is below said level, a blocking member operatively connected with said shiftable element and adapted to block the coin receiving slot of a different and higher coin denomination when said element is displaced, and means to restore said blocking member to its inoperative position when a coin has been inserted into the coin receiving slot of said first mentioned lower coin denomination.

2,309,694
GATE
Charles N. Dilatush, Memphis, Tenn.
Application July 8, 1940, Serial No. 344,367
2 Claims. (Cl. 39—60)



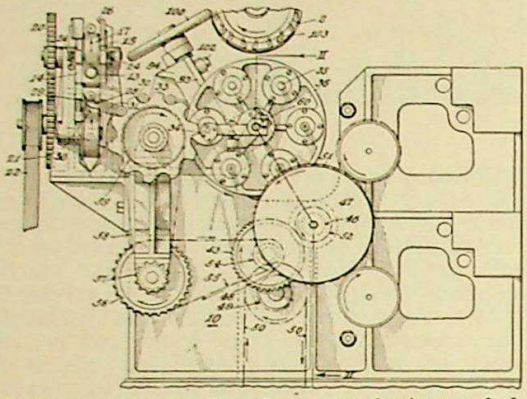
1. The combination with a gate closed by gravity action, of an operating device comprising a pair of mechanisms spaced oppositely from said gate in the direction of approach and departure of vehicles passing through said gate, which mechanisms each include a member disposed in the path of a wheel of a said vehicle and depressible by the approach passage of a said wheel, said member upon depression engaging means for opening said gate, a first latching means adapted to engage and retain said member in depressed position to maintain said gate in opened position, said member being reversibly depressible by departure passage of a said wheel, a second latching means adapted to engage and retain said member when reversibly depressed, spring means urging said latch means into engaging position, spring means urging said member toward resetting, cable means directly connecting said member of one said mechanism with the first latching means of the other said mechanism, operable by departure depression of said member to effect immediate release of said approach depressed member whereby to permit said gate to close and said approach depressed member to be reset, second cable means connecting said gate with said second latch for releasing said departure depressed member, said latter cable means being slack during the major portion of closure movement of said gate to delay release and resetting of said departure depressed member, whereby to permit complete passage thereover of all the wheels of a said vehicle.

2,309,695
STRUCTURAL MATERIAL FOR SOUNDPROOFING
Carl C. Droeger, Greenfield, Ind.
Application January 27, 1941, Serial No. 376,112
3 Claims. (Cl. 72—118)



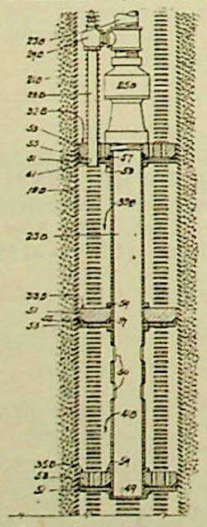
1. A building structure comprising a T-shaped stringer, wall boards having rabbeted edges resting upon said stringer with the head of the stringer lying in said rabbets, and fastening elements passing through the web of the stringer and engaging the rear faces of said boards.

2,309,696
COLLAPSIBLE TUBE APPARATUS
John H. Fridén, Maplewood, N. J., assignor to The Sun Tube Corporation, Hillside, N. J., a corporation of New Jersey
Original application February 3, 1938, Serial No. 188,418. Divided and this application September 12, 1941, Serial No. 410,494
8 Claims. (Cl. 101—38)



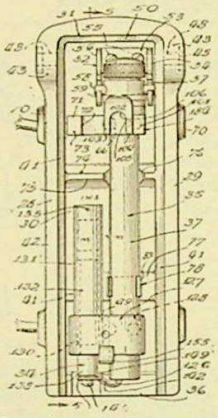
1. In apparatus for the manufacture of decorated collapsible metal tubes, a printer comprising a multiple spindle turret and means for feeding and applying coated tubes to the spindles thereof, said means comprising a carriage supported on a fixed pivot parallel to the axes of said spindles and movable in a direction parallel to said spindles to apply coated tubes thereto without relative movement between the coated tubes and the carriage whereby abrasion of the coating and clogging of the carriage is prevented.

2,309,697
WELL CLEANING
Norris E. Gunderson, Mishawaka, Ind., assignor to Layne-Northern Company, Incorporated, Mishawaka, Ind., a corporation of Indiana
Application December 26, 1940, Serial No. 371,659
5 Claims. (Cl. 166—20)



1. In means for cleaning a well screen, which includes pumping means and a pipe extending therefrom into said screen; heads carried by said pipe for segregating screen-surrounded chambers, each said head comprising a perforate disc secured to said pipe, an imperforate disc reciprocably mounted on said pipe for movement toward said perforate disc under pressure due to actuation of said pumping means, means limiting separation of said discs, and an elastic ring, as of soft rubber, disposed between said discs in immediate adjacency with the peripheries thereof; said discs extending into adjacency with said screen, one of said discs being peripherally beveled facing the other thereof to establish between said discs a peripherally open groove for said ring, said ring being of greater cross-sectional area than said groove, whereby initial separation of said discs is promoted and relative approach of said discs under pumping, will effect sealing contact between said ring and said discs and outwardly displace said ring into sealing contact with said screen.

2,309,698
FUSED CUTOUT
David C. Hubbard, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri
Application April 14, 1941, Serial No. 388,501
18 Claims. (Cl. 200—114)

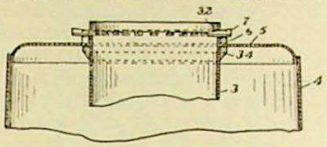


14. In a fused cut-out, the combination of an insulating housing with a fuse unit, said fuse unit comprising an insulating tube having electrical unit connectors located adjacent its ends, and having a tensioned fuse in said tube connecting said unit connectors, means for securing said fuse unit in said housing, an electrical connector carried by said housing for engaging one of the unit connectors, and a second electrical connector carried by said housing adjacent the other of said unit connectors, a cover movably mounted on said housing and having a bridging contact, said bridging contact engaging the latter of said connectors on said housing and engaging the other of said unit connectors, and means connecting said cover and fuse unit, whereby an opening movement of the cover effects a triple break of the circuit, including all of said connectors and fuse unit and bridging contacts, said cover being constructed and arranged for pivotal movement on said housing in such manner as to effect a double break of the circuit at said bridging contact at the upper part of said cut-out first, to avoid the upward travel of an arc from the other break in said circuit.

2,309,699
ANNEALING FURNACE
Edward I. Huff, Nutley, N. J., assignor to Huff Equipment Company, a corporation of Pennsylvania
Application November 25, 1941, Serial No. 420,393
1 Claim. (Cl. 263—49)

A muffle for an annealing furnace including inner and outer walls of cylindrical form and a top wall with central orifice closing from above the space between the walls, the top wall being

integrated at its outer margin with the outer wall, and the inner wall constituting a separable part and in the assembly extending through and beyond the central orifice in the top wall, the inner wall being shouldered externally, a clamping ring



applicable to the upper end of the inner wall, and wedges adapted to engage the inner wall and the clamping ring and to clamp the inner margin of the top wall upon the shoulder of the inner wall.

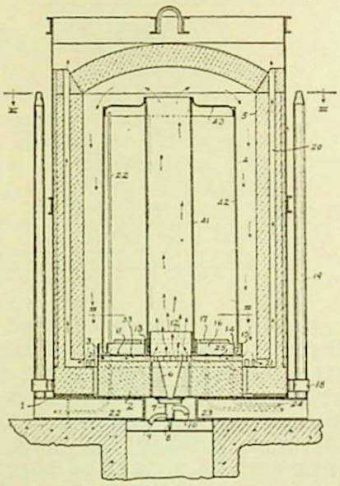
2,309,700

ANNEALING FURNACE

Edward I. Huff, Nutley, N. J., assignor to Huff Equipment Company, a corporation of Pennsylvania

Application December 1, 1941, Serial No. 421,150

5 Claims. (Cl. 266—5)



1. In an annealing furnace of muffle type and having a muffle of annular shape, such furnace including a base, a muffle, and a hood, the muffle and the hood being severally applicable to and removable from the base and when applied forming between themselves a furnace chamber, the invention herein described which consists in means for introducing flame to the furnace chamber at the base of the columnar space defined by the inner wall of the annular muffle, and flues for the products of combustion opening from the furnace chamber through the hood and at the base thereof.

2,309,701

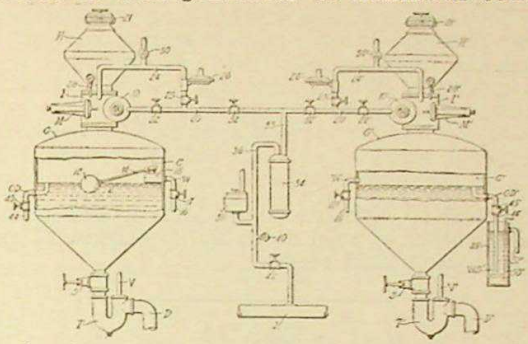
GAS GENERATING SYSTEM

Robert J. Kehl, Manhasset, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application February 24, 1940, Serial No. 320,555

7 Claims. (Cl. 48—38)

1. A method of recharging a gas generator in which gas is generated at about one atmosphere gauge pressure by the reaction of a solid and a liquid leaving a residue in the form of a sludge, such method comprising the steps of rapidly discharging said sludge from the generating chamber of said generator by employing the pressure of residual gas within said generator to force the sludge therefrom and thereby to expand said gas to a lower superatmospheric pressure; and thereafter supplying, as needed throughout the recharging operation, an additional quantity of said gas at superatmospheric pressure to said generator to maintain contin-



uously therein a preselected superatmospheric pressure throughout said recharging operation.

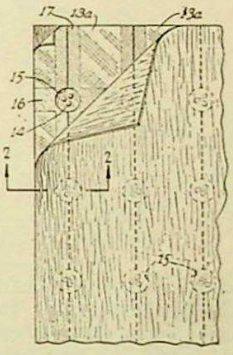
2,309,702

SEED PLANTING PACKAGE

Samuel Kirschenbaum, Brooklyn, N. Y.

Application April 13, 1939, Serial No. 267,628

9 Claims. (Cl. 47—56)



4. A seed package or tape of the character described adapted to be planted underneath the surface of the earth, said package comprising at least three superimposed co-extensive layers including an intermediate layer of a material which will not readily disintegrate, said layer having a plurality of apertures therethrough, and top and bottom layers of readily disintegratable material overlying and underlying said intermediate layer and cooperating with said apertures to form closed seed-containing packets from which said intermediate layer extends horizontally when said package or tape is planted, said intermediate layer serving to maintain the seeds in position during germination and to prevent the growth of weeds between said apertures, the apertures in said intermediate layer communicating with an edge of said layer so that said layer may be stripped away from plants grown from the seeds, without causing damage thereto.

2,309,703

ALTERNATING CURRENT GENERATOR

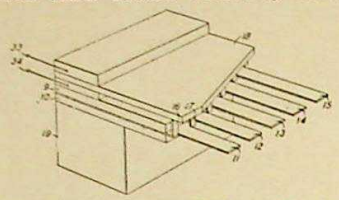
Clarence A. Lovell, Maplewood, N. J., and Rudolph F. Mallina, Hastings on Hudson, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 21, 1941, Serial No. 394,462

2 Claims. (Cl. 179—90)

1. An alternating current generator comprising a plurality of reeds each having a different natural period of vibration, each said reed having one end free and the other end secured, an anchorage for securing said reeds, a piezoelectric

crystal having one end thereof secured to said anchorage and the other end thereof in physical contact with said reeds whereby said crystal is



subjected to the forces of lateral deflection by the vibration of said reeds and mechanical means for plucking said reeds.

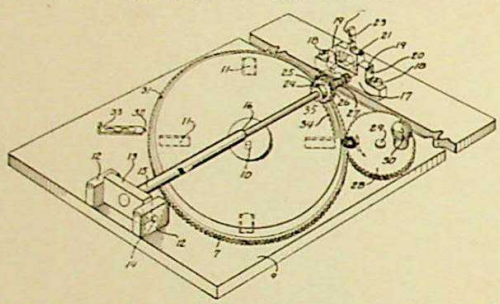
2,309,704

GEAR CAM TRACK AND MEANS AND METHOD FOR MAKING SAME

Peter J. McLaren, New York, N. Y., assignor, by mesne assignments, to Reconstruction Finance Corporation, New York, N. Y., a corporation of the United States

Application June 24, 1941, Serial No. 399,564

15 Claims. (Cl. 18—5)



3. The method of forming a cam track adapted to guide a flanged follower gear along and in proper meshing engagement with a spiral pin cam gear, which consists in covering the cam gear with a layer of plastic material whose thickness is substantially equal to the height of the pins, impressing the follower gear in said plastic material and into mesh with one or more pins at one end of the cam gear and rotating the cam gear while simultaneously biasing the flange of the follower gear into engagement with the pins of the cam gear in succession.

15. The method of forming a spiral gear track and guide which consists in coating a gear pattern with plastic, sinking a flanged molding gear in the plastic, and moving the molding gear substantially radially of the pattern while rotating the pattern gear and the molding gear in harmony with one another, and casting in suitable gear metal duplicates of the pattern so formed.

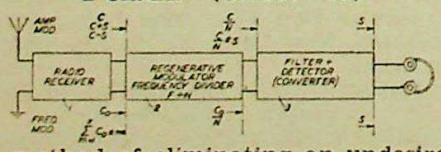
2,309,705

CARRIER WAVE SIGNALING

Ralph L. Miller, Verona, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 24, 1941, Serial No. 390,072

1 Claim. (Cl. 250—20)



The method of eliminating an undesired frequency component from a complex wave having a principal component of materially greater amplitude than the component that is to be eliminated comprising subdividing the complex wave to produce submultiple frequencies thereof the desired components of which occupy a reduced frequency band in proportion to the ratio of subdivision of the frequencies whereby said frequency component to be eliminated is made to appear in the reduced frequency wave as side-band components having the same frequency spacing from said principal component as in the original complex wave, and filtering the reduced frequency band from said side-band components.

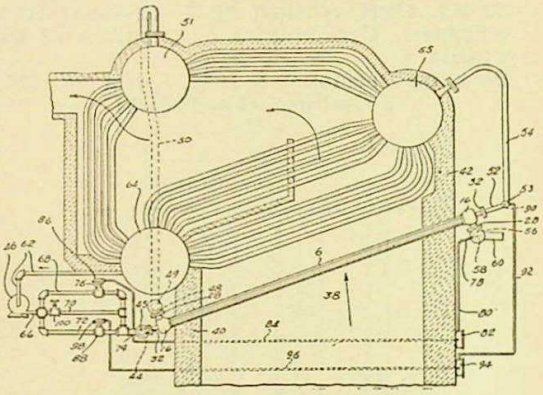
2,309,706

SUPERHEATER

Charles McIntosh, Detroit, Mich.

Application February 15, 1941, Serial No. 379,029

5 Claims. (Cl. 122—479)



1. Apparatus for raising saturated vapor flowing therethrough to a substantially constant superheat temperature comprising, in combination, a central conduit for liquid, a plurality of parallel vapor conduits arranged about said liquid conduit and each having the wall thereof integrally connected to a part of the wall of said central conduit in such manner as to provide a highly conductive by-pass to the liquid in said conduit for heat impinging upon the structure in excess of that required for superheating, and means, governed in its effective operation by the outlet temperature of the superheated vapor, for producing a positive and continuous flow through said liquid conduit of a wall-wetting stream of liquid of a volume and velocity adequate only to absorb said excess heat of the structure, said liquid and said stream passing through said structure in parallel flow and said structure providing no immediate integral heat-conducting path between the vapor in said conduits and the heat-absorbing liquid.

2,309,707

SEALED SUBMERSIBLE STRUCTURE

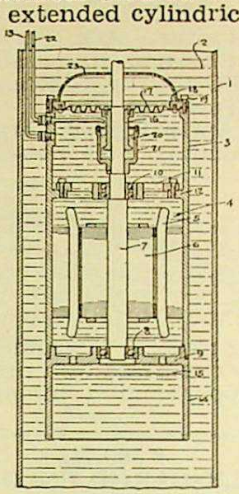
Thomas G. Myers, Los Angeles, Calif., assignor to U. S. Electrical Motors, Inc., Los Angeles, Calif., a corporation of California

Application November 22, 1937, Serial No. 175,896

18 Claims. (Cl. 172—36)

1. In a submersible structure adapted to be submerged in well liquid, a casing, an electric motor in the casing, said motor having a bearing structure within the casing, a closure for one end of the casing comprising a diaphragm, a shaft driven by the said motor and extending out of the casing and through said diaphragm, and a seal between the shaft and the diaphragm for rendering said casing fluid tight, including

a non-rotary member secured to the diaphragm and having an extended cylindrical area of con-



tact with the shaft, said shaft being unrestrained between said seal and said bearing structure.

2,309,708

MANUFACTURE OF ANTHRAQUINONE DERIVATIVES

Henry Charles Olpin, Christopher Stanley Argyle, and Frank Brown, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application July 9, 1940, Serial No. 344,606. In Great Britain August 21, 1939

7 Claims. (Cl. 260—369)

1. Method of purifying a mixture selected from the group consisting of (*a*) a mixture of 1:5-dinitro-anthraquinone and 1:8-dinitro-anthraquinone contaminated with beta-nitro-compounds and resulting from the nitration of anthraquinone, and (*b*) a mixture of 1:5 dinitro-4:8-diamino-anthraquinone and 1:8-dinitro-4:5-diamino-anthraquinone contaminated with beta-nitro-compounds and resulting from the nitration and hydrolysis of a mixture of 1:5-di-(acetylamino)-4:8-dinitro-anthraquinone and 1:8-di-(acetylamino)-4:5-dinitro-anthraquinone, which comprises subjecting the mixture to the action of a water-soluble normal sulphite until the beta-nitro-compounds have been converted into water soluble products and separating the latter from the remaining mixture of 1:5- and 1:8-dinitro-compounds.

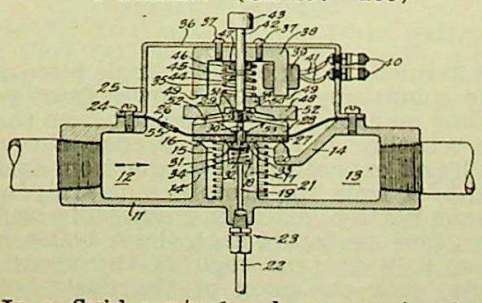
2,309,709

MANUAL RESET VALVE

Eugene Paille, Los Angeles, Calif., assignor to General Controls Co., Glendale, Calif., a corporation of California

Application August 15, 1941, Serial No. 406,979

8 Claims. (Cl. 137—139)



1. In a fluid control valve: a casing having a ported passage therethrough provided with a valve seat; a closure member cooperable with said seat; a first means constantly urging said closure member away from its seat; a second means normally urging said closure member toward its seat with a force greater than that of said first means; a lever having a portion interposed between said closure member and said second means; means on the closure member forming a fulcrum for said lever; means extending to the exterior of the casing for operating said lever; said lever being movable in one direction to simultaneously create a force tending to hold said closure member on its seat and move said second means to a first postion wherein its force on the closure member is removed; and condition responsive means for retaining said second means in said first position; said lever being movable in an opposite direction to a position wherein, when said second means is retained by said condition responsive means, the lever no longer exerts said force tending to hold said closure member on its seat.

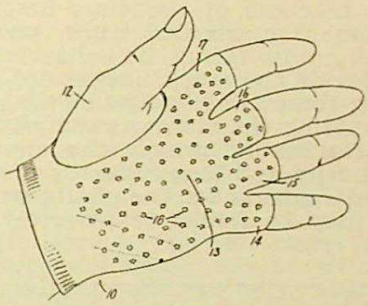
2,309,710

GOLF GLOVE

Edward H. Patterson, Jr., Troy, N. Y.

Application June 11, 1941, Serial No. 397,515

2 Claims. (Cl. 2—159)



1. A golf glove the free palm gripping portion of the body of the palm of which glove is provided with openings, the portion of the body immediately surrounding the openings being thicker than the main body portion of said glove.

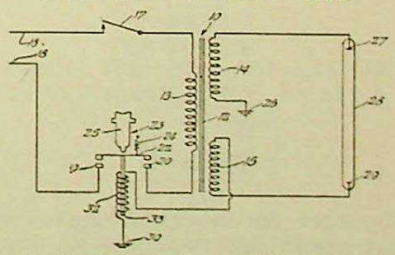
2,309,711

CONTROL CIRCUIT

Oscar A. Pearson, Oak Park, Ill., assignor to Jefferson Electric Company, Bellwood, Ill., a corporation of Illinois

Application April 30, 1941, Serial No. 391,168

3 Claims. (Cl. 176—124)



1. A control circuit for an illuminating system comprising, in combination, an illuminating device, a power supply line, a transformer having a primary winding adapted to be connected to the power supply line and a secondary winding divided into substantially equal halves, said halves of the secondary winding having center and outer terminals, said illuminating device being connected to the outer terminals, two switches being connected in series with the power supply line and primary winding, both of said switches being manually operable to the closed position and one of the switches being normally biased to the open position and having electromagnetic

holding means for holding the switch closed, the center terminals of the secondary windings being grounded, and at least one of the ground connections to the center terminals of the secondary windings being made through said electromagnetic holding means.

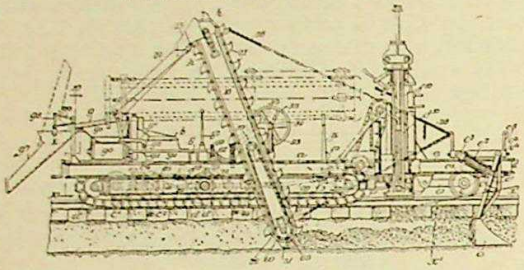
2,309,712

APPARATUS FOR HANDLING BALLAST IN RAILWAY ROADBEDS

Frank H. Philbrick, Evanston, Ill.

Application March 22, 1940, Serial No. 325,349

7 Claims. (Cl. 37—104)



1. In a machine of the class described, the combination of a wheeled truck, power-driven mechanism for displacing the ballast transversely to the sides of the track, means for conveying the ballast, comprising endless elevators, mechanism for driving the elevators comprising transverse shafts around which the elevators can swing vertically and longitudinally of the truck, and pivotal supports for the shafts whereby the elevators may be folded transversely so as to overlie the truck.

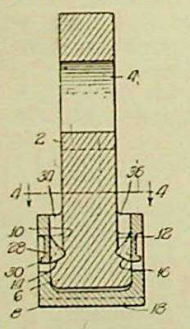
2,309,713

HAMMER FOR CENTRIFUGAL DEVICES AND THE LIKE

Thomas A. Ratkowski, Chicago Heights, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y., a corporation of Delaware

Application August 7, 1940, Serial No. 351,720

9 Claims. (Cl. 83—11)



8. A hammer for a centrifugal device, comprising an operating member, an impact head member having a facing wall and upstanding opposed end and side walls forming a member of box-like construction provided with an open face in opposed relation to said facing wall into which said operating member is stepped by relative movement between said members in the direction of the axis of said operating member, said operating member being provided with a recess in at least one face thereof having a locking shoulder, and said impact head member having a wall portion bendable into interlocking relation to said shoulder to prevent relative axial displacement of said head member with respect to said operating member.

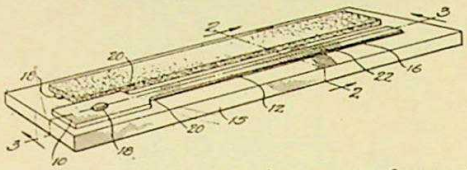
2,309,714

REED FOR MUSICAL INSTRUMENTS

Adelbert C. Radtke, Oak Park, and Dan T. Fernandez, Chicago, Ill., assignors to Sears, Roebuck and Company, Chicago, Ill., a corporation of New York

Application April 29, 1940, Serial No. 332,410

3 Claims. (Cl. 84—363)



1. A reed for musical instruments formed of a hardened alloy composed of a preponderant proportion of copper and a minor proportion of beryllium.

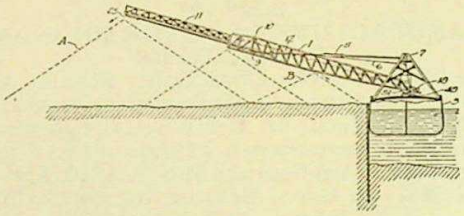
2,309,715

MARINE BULK-CARGO UNLOADING BOOM

Charles M. Rudow, Elmhurst, Ill.

Application January 3, 1939, Serial No. 248,919

5 Claims. (Cl. 214—14)



1. A cargo unloading device comprising a main boom, a shuttle boom movable along said main boom for variable longitudinal extension thereof, means adjacent the outward end of said main boom arranged to support said shuttle boom independently in all positions of movement of the same, a tail guide on the inward end of said shuttle boom, and tail guide receiving means in appropriate position on said main boom to engagingly receive said tail guide automatically and secure the inward end of said shuttle boom against displacement when the same is in retracted position.

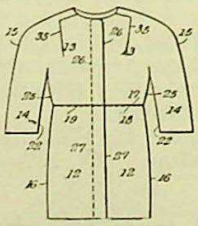
2,309,716

GARMENT AND METHOD OF MAKING SAME

Judah I. Seifer, New York, N. Y.

Application April 27, 1942, Serial No. 440,609

4 Claims. (Cl. 2—93)



1. A garment blank cut of a single piece of fabric and comprising a back, a lower front portion extending on each side of the back from the zone of the waistline to the bottom edge, a complete sleeve blank extending outwardly from each side of said back from the armpits outwardly, an upper front portion extending upwardly and outwardly from the top of each sleeve blank, a neck opening, a V-dart in each of the upper front portions, with the apex of the darts being at the breast point of the garment and the base of the dart being on or communicating with the free edge of the said upper front portion, said lower front portions being arranged to be folded toward each other onto the back, the sleeve blanks and

the upper front portions being arranged to be folded down along the medial line extending from the end of each sleeve to the neck line, whereby the lower edge of the upper front portions and the upper edge of the lower front portions may be united at the waistline, the sides of the upper front portions joined to the said back, and the edges of the sleeve blanks joined along the under center of the sleeve.

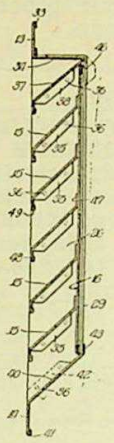
2,309,717

VENTILATOR

Anthony G. Siebenlist, Milwaukee, Wis., assignor to Milcor Steel Company, Milwaukee, Wis., a corporation of Delaware

Application August 23, 1940, Serial No. 353,803

3 Claims. (Cl. 98—121)



1. In a ventilator, a metal frame providing a louver opening including side walls each having a front flange integral therewith, a top wall secured to the upper ends of the side wall, and a downwardly and outwardly sloping bottom wall, said bottom wall being secured to the side walls and providing an upwardly directed retaining flange along the rear edge thereof, said top and bottom walls respectively having integral front flanges disposed in the same plane as the flanges of the side walls for securement thereto, a plurality of louver members within said opening extending between the side walls and in parallel arrangement with said outwardly sloping bottom wall, a wire mesh screen having a reinforcing frame and located within the rear of said opening, said frame having contact with the rear edges of said louver members and being retained along its bottom edge by said upstanding retaining flange, and a plurality of tabs provided by the side walls for releasably securing the upper portion of said frame within the louver opening.

2,309,718

METHOD OF PREPARING HIGH BOILING HYDROCARBONS

Carlisle M. Thacker, Toledo, Ohio, assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application December 1, 1937, Serial No. 177,411

26 Claims. (Cl. 196—10)

1. Method for converting paraffinic gases into higher boiling hydrocarbons which comprises contacting said gases at elevated temperatures in the presence of sulfur with an oxidation catalyst, separating the resulting organic sulfur compounds from the remaining reaction products, and contacting the organic sulfur compounds at elevated temperatures with a catalyst capable of splitting off hydrogen sulfide from the organic sulfur compounds.

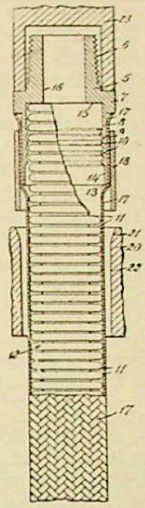
2,309,719

FLEXIBLE METAL HOSE

John Locke Vaill, Middlebury, Conn., assignor to The American Brass Company, a corporation of Connecticut

Application June 19, 1940, Serial No. 341,233

3 Claims. (Cl. 285—72)



1. A flexible metal tube assembly which comprises a flexible metal tube of the type having its walls formed with a plurality of closely spaced annular corrugations, a fitting comprising a fitting portion of desired configuration and a substantially cylindrical sleeve portion formed integrally with said fitting portion and provided with a plurality of annular ribs formed on the interior surface thereof defining one or more annular grooves conforming substantially to the pitch and contour of the annular corrugations of the flexible metal tube, said sleeve portion being mounted over the flexible metal tube and being compressed tightly thereagainst with the annular ribs engaging between the annular corrugations of the flexible metal tube and with the latter seated tightly in the grooves, a metallic braid surrounding the tube and extending over the outer surface of the sleeve portion of the fitting, and an annular ring compressed tightly about the metal braid surrounding the sleeve portion of the fitting in such manner as to lock the braid tightly to the fitting.

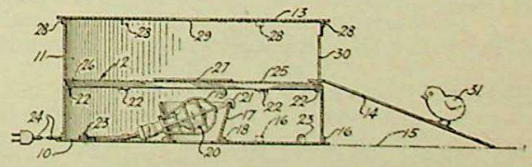
2,309,720

BROODER

Herbert C. Washburn, Detroit, Mich.

Application February 4, 1942, Serial No. 429,444

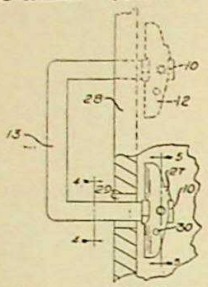
3 Claims. (Cl. 119—33)



1. A brooder of the class described comprising a base member, a wall, a roof, a reticulated floor disposed between said base and roof, means providing chicks with access to said floor, a heat reflector centrally disposed on said base formed to direct heat currents upwardly therefrom, a heating element in said heat reflector, the said roof and walls having suitable apertures therethrough to provide stack action through said brooder from below said reticulated floor, and a heat baffle on said floor centrally disposed with respect to said

heat reflector of sufficient size to disperse heat currents from said heating element outwardly from said heat baffle and provide warm air flow through said reticulated floor around chicks thereon whereby to prevent excessive huddling of chicks in the brooder.

2,309,721
FASTENER
Arvid Wickstrom, Minnneapolis, Minn.
Application November 12, 1941, Serial No. 418,765
14 Claims. (Cl. 2—271)

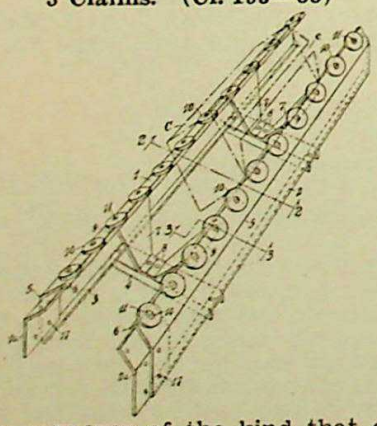


1. In combination, a gripping element, a strap secured thereto, spaced apart bearing entities upon said gripping element, an anchoring element, and spaced apart bearing entities upon said anchoring element complemental to and interengaged with the bearing entities upon said gripping element.

2,309,722
TOILET PREPARATION
Benjamin G. Wilkes and Helen E. Wassell, Pittsburgh, Pa., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application August 3, 1940, Serial No. 351,196
8 Claims. (Cl. 167—91)

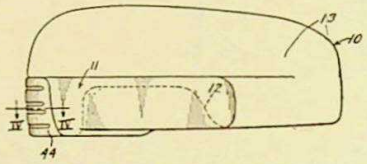
1. A toilet preparation for dermal application containing as an essential ingredient a polyoxyalkylene glycol of the 1,2 series containing not more than three carbon atoms in each oxyalkylene radical, said polyoxyalkylene glycol having an average molecular weight not less than about 400.

2,309,723
CONVEYER
George W. Wilson, Reading, Ohio
Application November 14, 1940, Serial No. 365,573
3 Claims. (Cl. 193—35)



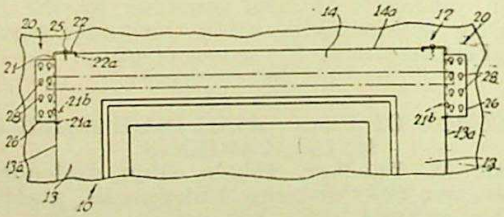
1. In a conveyer of the kind that comprises side rails and rotatable elements arranged along said rails on upwardly outwardly inclined axes, to support objects for travel of the objects along said rails with the middle portions of the objects depending between the rails, and cross beams connecting lower portions of said rails and pairs of upwardly diverging braces, each pair connected to the middle part of a respective cross beam and extending to the upper portions of respective opposite rails, a structure characterized in that each rail has its upper portion inclined inwardly toward the other rail and has along its inner upper edge a depending flange, and in that each brace bears inwardly and upwardly against the respective rail edge flange and has an end flange extending along the under side of the rail upper inclined portion, and in that each rotatable element has a bearing core at the outer upper side of the respective rail upper inclined portion, and means rigidly securing together the core, the rail upper inclined portion and the brace end flange.

2,309,724
FENDER SHIELD CONSTRUCTION AND ASSEMBLY
Frederick W. Wohlfield, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application June 5, 1941, Serial No. 396,691
5 Claims. (Cl. 280—153)



1. A closure member for covering the wheel opening in the outer depending wall of a high crowned fender, said fender having a rounded front wall, said closure member being shaped to extend entirely around the rounded front wall of said fender and over a substantial portion of the side wall including that portion which includes the wheel opening, and means on said closure member for detachably securing the same to said fender.

2,309,725
CURTAIN AND DRAPERY HANGER FOR WINDOWS
George B. Yerton, New York, N. Y.
Application June 10, 1940, Serial No. 339,643
2 Claims. (Cl. 248—263)



2. A structurally integral, one-piece bracket of the character described, comprising a wall having a prong, a second wall of less width than the first wall extending from the upper edge of and adjacent the rear portion of the latter and at right angles to the first wall, said second wall also having a prong, both of said walls having openings to receive fastening elements to fasten the bracket to a window frame, said bracket further comprising a third wall extending from the forward edge of the first wall and at right angles to the first and second walls, said third wall having a plurality of vertical rows of spaced key slots

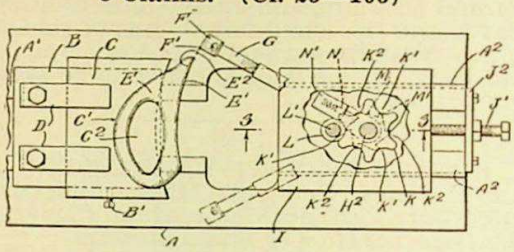
adapted to be selectively engaged by curtain rods, said third wall being spaced forwardly of the second wall.

2,309,726

TRIMMING MECHANISM

Walter Floyd Zalewski and Waldo Emerson Woodcock, Syracuse, N. Y., assignors to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York

Application March 28, 1939, Serial No. 264,668
8 Claims. (Cl. 25—105)



1. In a machine for trimming preformed handle parts of ceramic material in a plastic condition, the combination with a normally stationary work holder, of cutter supporting means mounted to turn about an axis and a cutter supported by said means and having a cutting edge elongated in the direction of said axis and varying in its distance from said axis at different points along its length and means for moving said cutter toward and away from said axis as said supporting means turns about said axis.

2,309,727

FURYL VINYL KETONE AND ITS ALPHA ALKYL SUBSTITUTED VINYL ANALOGUES

Carl E. Barnes, Worcester, Mass., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 6, 1938, Serial No. 244,219
3 Claims. (Cl. 260—66)

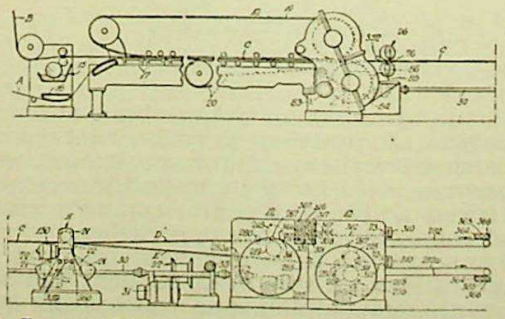
1. Method of making a compound from the group consisting of furyl vinyl ketone and furyl isopropenyl ketone, comprising the steps of treating a ketone from the group consisting of furyl methyl ketone and furyl ethyl ketone, with formaldehyde in the presence of a dialkyl ammonium salt and thereafter steam distilling the product.

2,309,728

PRODUCTION OF PAPER BOARD UNITS

Walter J. Goettsch, Kenilworth, Ill., assignor to Samuel M. Langston Co., Camden, N. J., a corporation of New Jersey

Application November 14, 1941, Serial No. 419,112
20 Claims. (Cl. 164—61)



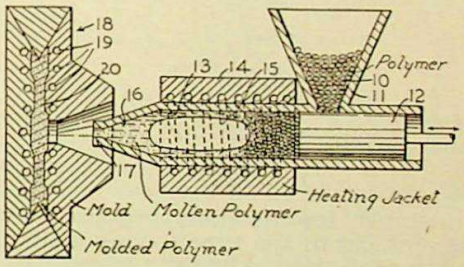
20. In combination, a continuously operating double facer, a slitting device for slitting the sheet material delivered from said double facer longitudinally into strips, a pair of cut-off mechanisms for transversely cutting the separate strips into sections of predetermined length, means at the delivery end of the double facer and automatically operable when a predetermined number of sections have been cut by one of said cut-off mechanisms, for severing said sheet material transversely, means automatically operable thereafter for reducing the speed of the double facer with respect to the speed of the advance severed portion to form a gap of progressively increasing width between the two advancing portions, means automatically operable during the interval determined by said gap when no sheet material is passing through said slitting device for adjusting said device to change the position of the slitting line with respect to the edges of the advancing sheet material, and means automatically operable during the interval determined by said gap when no sheet material is passing through said cut-off mechanisms for adjusting the time cycles of operation of said cut-off mechanisms.

2,309,729

MOLDING OF POLYMERIC MATERIALS

Wallace E. Gordon, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application September 30, 1938, Serial No. 232,679
1 Claim. (Cl. 18—55)



A process for obtaining highly tough and rigid articles composed of high molecular weight synthetic linear polymer, said process comprising heating above its melting point a polymer comprising polyhexamethylene adipamide which has been polymerized to an intrinsic viscosity above 1.0, and injecting the molten polymer under pressure into a closed mold.

2,309,730

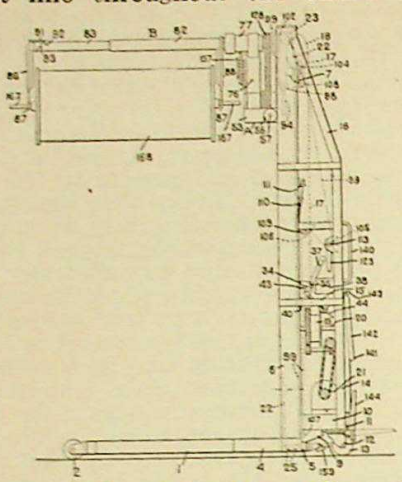
SIDE DELIVERY TRANSPORTING MACHINE

Russell Hastings, Jr., Wellesley Hills, Mass., assignor to Lewis-Shepard Company, Watertown, Mass., a corporation of Massachusetts

Application February 15, 1941, Serial No. 379,107
29 Claims. (Cl. 212—10)

1. A portable hoisting machine comprising a vertically movable carriage, a main transporting arm mounted on said carriage to swing laterally about a horizontal axis, rigid supplemental transporting means mounted on the free end of said main transporting arm to swing about a parallel horizontal axis and provided with article-supporting means, and means operable by the swinging movement of the main arm to swing the supplemental transporting means in the same direction and to correlate the ratio of the angular movements of the main arm and the supplemental transporting means to the ratio of the effective radial lengths of the main arm and supplemental transporting means to move the

article-supporting means horizontally in a straight line throughout the entire swinging



movements of the main arm and supplemental transporting means.

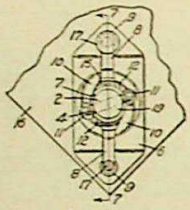
2,309,731

ROTARY OPERATIVE FASTENER

Frank E. Johnson, Malden, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application November 10, 1938, Serial No. 239,815

13 Claims. (Cl. 24—221)



1. A member for fastener cooperation with a rotating member of the type having a shank and at least one projection extending from said shank, said member being formed from a single piece of sheet metal comprising an attaching portion and an outwardly spaced apertured portion adapted to receive a portion of the shank and the projection of the rotating member and a rigid integral embossed portion on said apertured portion arranged on an arc concentric with the center of the aperture providing a gradually rising cam surface, a depression, and a stop for cooperation with said projection during rotative movement.

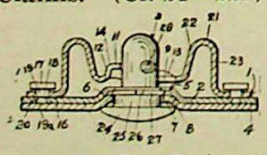
2,309,732

ROTARY OPERATIVE FASTENER

Frank E. Johnson, Malden, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application April 16, 1940, Serial No. 329,918

6 Claims. (Cl. 24—221)



1. A spring member for fastener cooperation with a rotating member of the type having a shank and at least one projection extending from said shank, said spring being formed from sheet metal and providing a main body portion having an aperture adapted to receive a portion of the shank and the projection of the rotating member, said body providing a depression and a stop adjacent said aperture for fastener cooperation with said projection during rotative movement, and a U-shaped portion intermediate said aperture and one of the longitudinal ends of said spring, said U-shaped portion having spaced side elements and a bight connecting said elements, said U-shaped portion having its bight disposed out of the general plane of said body portion with the planes of said side elements substantially transverse to the general plane of said body portion to increase the resiliency of said spring during normal fastening and unfastening rotation of the parts, and the longitudinal ends of said strip being substantially parallel to the general plane of said body portion and adapted to be secured to a supporting panel.

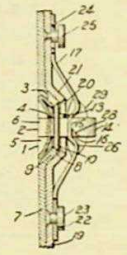
2,309,733

ROTARY OPERATIVE FASTENER

Walter I. Jones, Belmont, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application November 10, 1938, Serial No. 239,826

9 Claims. (Cl. 24—221)



1. In a fastener for cowling or the like, a fastening element comprising a metal strip having a central aperture and rigid cam and groove means adjacent said aperture adapted to receive and interlock with a cooperating rotary fastening element in response to turning movement of the latter, said strip having resilient metal sections beyond said cam and groove means and bearing sections beyond said resilient sections adapted to bear slidably upon supporting structure in a plane spaced from the remainder of the strip, a longitudinal slot in at least one of said bearing sections, and a fastening member having a reduced portion extending through said slot and adapted to be secured permanently to a part to be fastened.

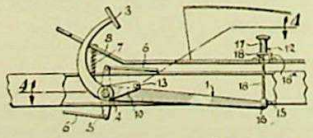
2,309,734

BRAKE CONTROL MECHANISM

Paul Klotsch, Cincinnati, Ohio, assignor to The Crosley Corporation, Cincinnati, Ohio, a corporation of Ohio

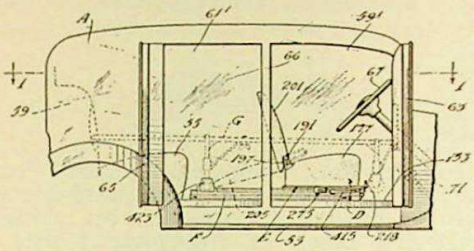
Application February 19, 1941, Serial No. 379,661

4 Claims. (Cl. 74—502)



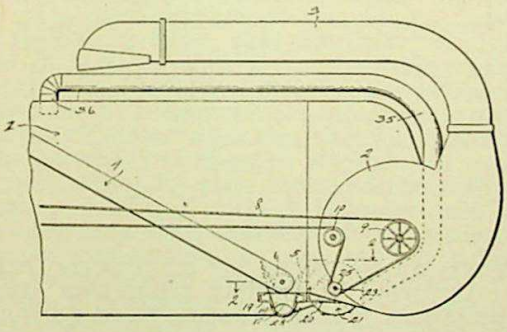
1. A hand operated control mechanism for vehicle brakes, comprising a rock shaft having means associated therewith for actuating a braking system, a lever having one end in operative connection with the rock shaft, a hand operated pull rod connected with the opposite end of said lever for actuating the same, said pull rod including a series of spherical resilient latching elements thereon, and means cooperating with said latching elements operable to hold the pull rod in a selected position.

2,309,735
VEHICLE CONSTRUCTION
Arthur L. Koch and John B. Covi, Elizabeth, N. J.
Application April 26, 1940, Serial No. 331,690
40 Claims. (Cl. 296—19)



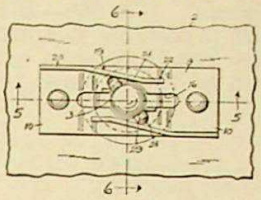
1. In a vehicle, the combination of a vehicle body having a side opening, a rectangular platform longitudinally disposed within the said body and supported on the floor thereof for bodily movement parallel to the said floor, means for shifting the platform between a riding and an extended position, the said means enabling the platform to be moved between longitudinal position entirely within the body and a position transverse of the body, instrumentalities for extending the entire platform outwardly through the side opening when the platform is in transverse position until the entire platform projects beyond the body to a substantial distance, the said instrumentalities including mounting means enabling the entire platform to be extended completely beyond the vehicle body, and means in the vehicle body for anchoring the platform interiorly of the body when the platform is in extended position.

2,309,736
RETHRESHER ATTACHMENT FOR THRESHERS
Melfred Makin, Ontario, Oreg.
Application May 29, 1941, Serial No. 395,890
3 Claims. (Cl. 130—27)



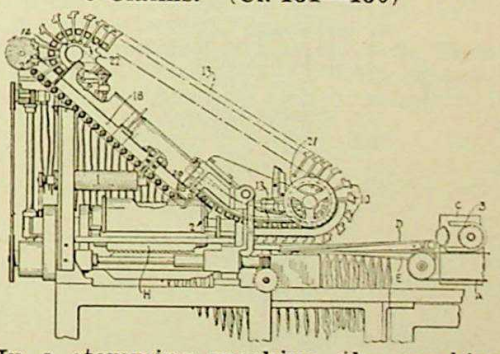
1. In a threshing machine having a tailings receiving trough, a receptacle disposed beneath said trough, a gate controlled discharge opening leading from the trough into the receptacle, a combined beater and blower unit including a housing having an inlet and an outlet, a pipe connecting said inlet with said receptacle, a pipe connected with said outlet and leading therefrom through the top of the thresher for the return of the re-threshed seed thereinto in the vicinity of the cylinder and beater, said thresher and blower unit further including toothed fan blades, and teeth carried by the wall of the housing within the same and coacting with the teeth of said blades for beating the seed.

2,309,737
ROTARY OPERATIVE FASTENER DEVICE AND INSTALLATION OF THE SAME
Howard J. Murphy, Greenwood, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 25, 1941, Serial No. 399,759
6 Claims. (Cl. 24—221)



3. In a sheet metal fastener device of the rotary operative type, a plate-like element adapted to be secured to one of the parts to be fastened, said plate-like element having an aperture and a rigid cam surface adjacent said aperture, a rotary member having a shank adapted to pass through the aperture in said plate-like element and having a lateral projection adapted to engage said cam surface on relative rotation of the parts, and a spring arm portion integrally joined to said plate element, said arm having the plane of one of its flat sides in substantially normal relation to the general plane of said plate-like element, said arm being movable in substantially parallel relation to the general plane of said plate-like element and adapted to engage said projection under tension to maintain said projection in fastener engagement with said plate-like element.

2,309,738
STEMMING MACHINE
Pontus Peterson, Garden City, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application October 3, 1940, Serial No. 359,469
5 Claims. (Cl. 131—130)



1. In a stemming machine, the combination with sets of opposed grippers adapted to grip the stem butts of tobacco leaves and transfer the leaves through a stripping zone, of means extending along the stripping zone and engaging and pressing together the portions of the grippers engaging the stem butts, with sufficient pressure to prevent slippage of the stem butts therefrom during the stripping operation, said means including sets of opposed rollers engaging the exterior faces of the portions of the grippers engaging the stem butts along the stripping zone, slidably mounted members supporting said rollers and yieldable in directions extending forwardly and outwardly relative to the grippers at acute angles to the path of the grippers, and devices urging said members toward the path of the grippers to press said rollers against the exterior faces of the portions of the grippers engaging the stem butts.

2,309,739

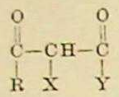
2-AMINOPYRIMIDINES

Richard O. Roblin, Jr., Old Greenwich, and Jackson P. English, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 23, 1940, Serial No. 362,418

4 Claims. (Cl. 260—251)

1. A method of producing 2-aminopyrimidines which comprises condensing a guanidine salt with a compound of the general formula:



in which R is a member of the group consisting of hydrogen and alkyl radicals, X is a member of the group consisting of hydrogen, halogen, nitro, and alkyl radicals, and Y is a member of the group consisting of hydrogen, hydroxy, halogen, alkyl, and alkoxy radicals in a large quantity of strong acid.

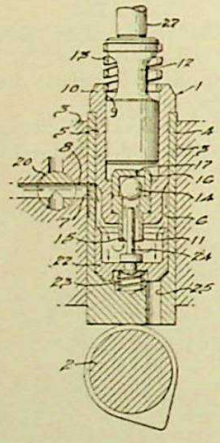
2,309,740

INTERNAL COMBUSTION ENGINE

Carl Voorhies, Detroit, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application July 24, 1941, Serial No. 403,849

9 Claims. (Cl. 123—90)



5. A hydraulic valve tappet comprising in combination, a tappet body having a longitudinal bore closed at its lower end and open at the upper end and adapted to receive operating liquid, the lower part of said body including a liquid reservoir, a hydraulic compensating mechanism received in the open upper end of said bore, valve means in the hydraulic mechanism regulating liquid movement thereinto, a valve controlled passage regulating flow of operating liquid into the reservoir in said bore, means in the liquid reservoir for rendering inoperative the valve means in the hydraulic compensating mechanism, said means in the liquid reservoir normally rendered inactive by pressure of the operating liquid and active upon closing movement of the valve controlled passage regulating flow of operating fluid into the tappet reservoir to effect shortening of the compensated length of said tappet.

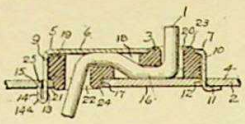
2,309,741

CORD SECURING DEVICE

Clement A. Woodward, Dedham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application November 19, 1940, Serial No. 366,243

3 Claims. (Cl. 173—322)



1. In combination, a supporting panel formed with spaced openings providing boss-receiving and fastener-receiving openings, an elongated strain-relieving block in engagement with one face of said panel and formed with an apertured boss extending into the boss-receiving opening of said panel, an apertured boss on the opposite face of the block spaced laterally from and out of alignment with the first named boss, said block having a cord-receiving passage connecting said apertured bosses, a retainer casing fitted over said block and having an opening receiving said second-named boss, and fastener means on said casing for engagement with the fastener-receiving openings of said panel for clamping the block to the panel against shifting or turning movement relative thereto.

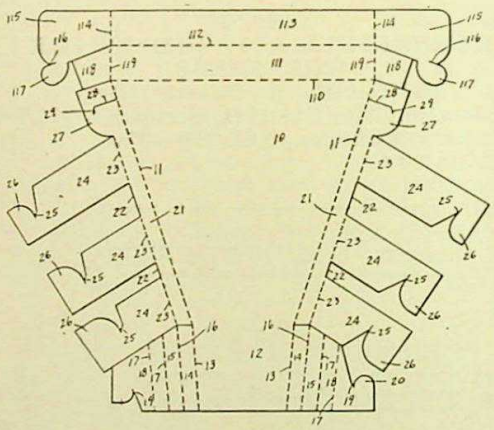
2,309,742

DISPLAY AND SHIPPING CONTAINER FOR CUT FLOWERS, ETC.

Charles H. Ballard, Arthur Neal Banter, and Samuel E. Hays, Marion, Ind., assignors to Lindley Box & Paper Company, Marion, Ind., a corporation

Application June 24, 1941, Serial No. 399,502

18 Claims. (Cl. 229—87)



1. A display container for cut flowers including an inverted somewhat triangular shaped body portion, a blossom nesting head portion at the upper end of the body portion and extending angularly thereof in depressed relation thereto, and a plurality of spaced tongue means extending from one side of the body portion to the other and across and above the body portion.

2,309,743

DECODING APPARATUS AND METHOD

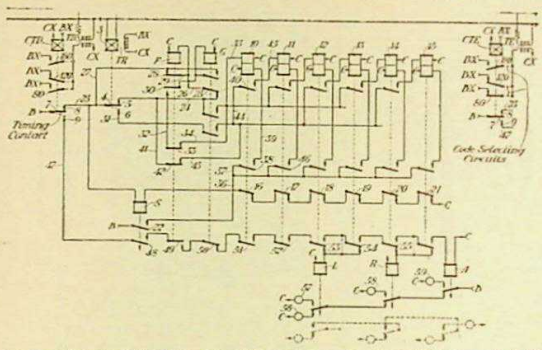
George W. Baughman, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application September 5, 1940, Serial No. 355,425

4 Claims. (Cl. 177—353)

1. Apparatus for decoding a frequency code comprising in combination, a code following relay responsive to the code being decoded, a timing

contact which is closed periodically for a predetermined time interval, a pair of starting relays one or the other of which is picked up when said timing contact becomes closed depending upon whether said code following relay is in its picked up or released position respectively, the respective starting relay remaining picked up thereafter until said timing contact becomes opened, a chain



of counting relays, and means including said timing contact, a contact of said code following relay, and a contact of said respective starting relay for causing sequential operation of said counting relays in step with changes in position of said code following relay, the code being determined in accordance with the number of said counting relays operated during said predetermined time interval.

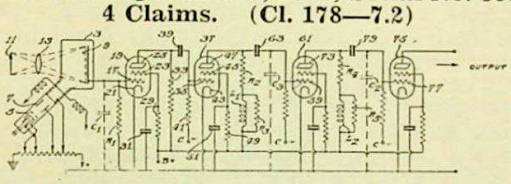
2,309,744

TELEVISION SYSTEM

Alda V. Bedford, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application September 7, 1940, Serial No. 355,797

4 Claims. (Cl. 178—7.2)



1. In combination with a cathode ray pickup tube for generating picture signals occupying a wide frequency band, said tube having high internal impedance and having output terminals that have unavoidable capacity therebetween, an output resistor connected between said terminals, an amplifier including a first vacuum tube having input electrodes connected across said resistor, said resistor having such high resistance that the frequency response characteristic at said input electrodes falls with increase in frequency, said amplifier comprising a plurality of amplifier stages connected in cascade, one of said stages including a frequency correcting network which gives to said one stage a frequency response characteristic which has a rising response with increase in frequency over a band of intermediate frequencies in said wide band and which has a substantially flat response over the rest of said wide band, and another of said stages including a frequency correcting network which gives to said other stage a frequency response characteristic which has a rising response with increase in frequency over a band of frequencies at the high frequency end of said wide band and which has a substantially flat response over the rest of said wide band, the overall frequency response characteristic of said two stages with frequency correcting networks being substantially complementary to the frequency response characteristic at said input electrodes.

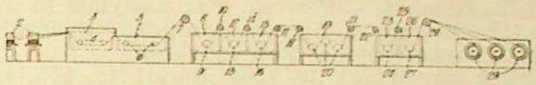
2,309,745

METHOD OF PROCESSING WIRE

Thomas G. Bergin, New Haven, Conn., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

Application October 14, 1940, Serial No. 361,157

3 Claims. (Cl. 148—6.5)



1. The method of processing and conditioning steel wire which includes the steps of successively heating the wire to a temperature above the critical temperature thereof in such a medium so that the surface of the wire is free from heavy oxide or scale, passing the wire while maintaining the same out of contact with oxidizing agencies in a relatively low temperature molten salt bath containing a cyanide wherein the wire is quenched rapidly down through the lower critical temperature thereof, so as to provide a wire having a tough and ductile structure and uniform drafting qualities with the surface of the wire being deoxidized by said salt bath and with a coating of salt being deposited thereon therein so as to protect the wire after it leaves said bath and until the wire has cooled to a temperature below that at which rapid oxidation takes place, passing the wire into and through a cleaning medium wherein the salts are removed from the surface of the wire so as to provide a clean surface patented wire, and then passing the wire through a medium wherein the surface of the wire is coated with a rust-retarding coating which is adapted to act as a lubricant for subsequent drawing operations.

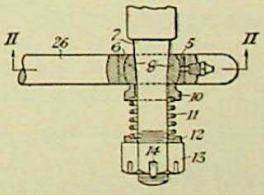
2,309,746

RAILWAY TRACK SWITCH CONNECTING MECHANISM

Herbert L. Bone, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Original application November 24, 1939, Serial No. 305,861, now Patent No. 2,245,427, dated June 10, 1941. Divided and this application October 31, 1940, Serial No. 363,659

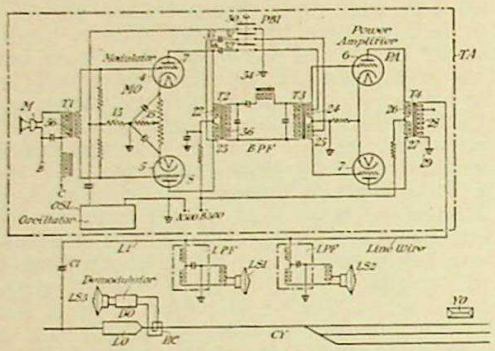
3 Claims. (Cl. 287—90)



1. In combination, a connecting rod having at one end thereof a laterally extending opening provided with a concave bearing surface conforming to the circumference of a sphere having its center at the center of said opening, a tapered force transmitting member adapted to be secured to an operative member and extending through said opening, bearing segments surrounding said member and shaped externally to conform to said bearing surface and internally to conform to said tapered member, and a compression spring surrounding said force transmitting member and interposed between said bearing segments and the free end of said tapered member for urging said bearing segments into constant engagement with both said tapered member and the bearing surface of said rod, whereby a connection is effected between said rod and said tapered member which transmits forces directly from said tapered member to said

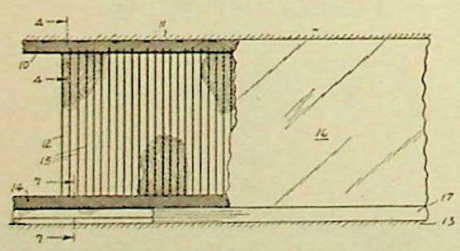
rod and lost motion between the parts of the connection is prevented by virtue of said biasing means.

2,309,747
TRANSMITTING APPARATUS FOR RAILWAY TRAIN COMMUNICATING SYSTEMS
Paul N. Bossart, Cheswick, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application March 20, 1942, Serial No. 435,440
11 Claims. (Cl. 246—8)



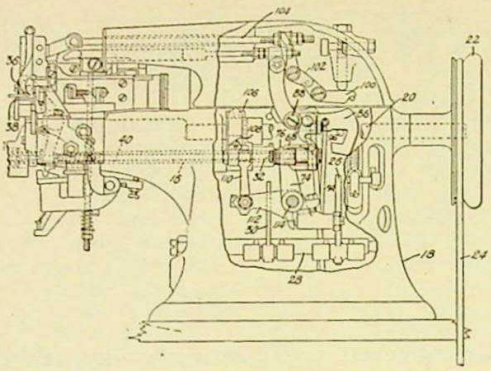
1. In communication apparatus for use with a transmitting circuit including the rails of a railway track and a line wire extending along such track, the combination comprising; wayside station means including a microphone, a carrier frequency generator and a modulator coupled to said transmitting circuit to supply thereto a carrier telephone current; and wayside station switching means operative to condition said first mentioned wayside station means to supply to the transmitting circuit a voice frequency telephone current.

2,309,748
BUILDING CONSTRUCTION
Henry Braloff, Rockville Centre, N. Y.
Application October 25, 1940, Serial No. 362,759
4 Claims. (Cl. 72—46)



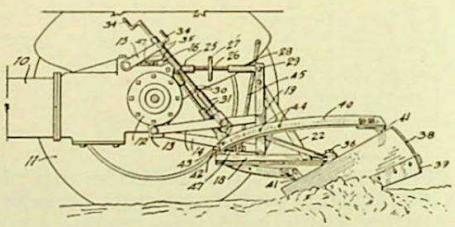
1. A wall construction for a room having a floor and a ceiling, said wall construction including a floor track and a ceiling track, said ceiling track having a base and a vertically depending expanded metal portion, said floor track having a base and an expanded metal portion upstanding substantially in the same plane as the depending portion of said ceiling track, said wall construction also including a separable expanded metal lathing incorporating vertically extending rods welded to said lathing in spaced relationship and having hooked end portions for interlocking engagement with the depending expanded metal portion of said ceiling track, the other end portions of said rods being disposed adjacent the upstanding expanded metal portion of said floor track for attachment thereto.

2,309,749
CONTROL MECHANISM
Rouel R. Campbell, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 9, 1941, Serial No. 392,665
12 Claims. (Cl. 12—55)



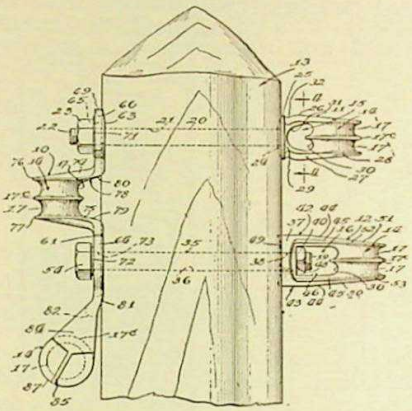
1. In a machine of the character described, a hammer, an anvil, a drive shaft, and manually controlled movable means within the machine for optionally connecting the hammer directly to said drive shaft to oscillate the hammer toward and away from the anvil.

2,309,750
EARTH MOVER
George E. Carrington, Fulton, Mo.
Application September 22, 1941, Serial No. 411,872
2 Claims. (Cl. 37—159)



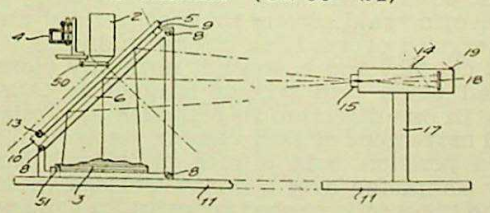
1. An earth moving attachment for tractors comprising: a cross bar positioned transversely of the line of travel; a frame member extending forwardly and rearwardly of the mid-portion of said cross bar; a vertical pivot bolt at the rear extremity of said frame members; a scraper blade pivotally mounted at its middle in said pivot bolt and extending transversely of said frame member; a semi-circular brace bar secured at its extremities to said blade and extending forwardly thereof; a yoke member on the forward extremity of said frame slidably receiving said brace bar; means for locking said brace bar in said yoke; a tension link extending forwardly from said cross bar at each side of said frame member for hinged connection to a tractor; a standard arising from the middle of said cross bar; a jack screw device extending forwardly from the upper extremity of said standard for connection to said tractor; and an extensible suspension shaft extending forwardly and upwardly from each tension link for connection to said tractor so that variation of the length of said jack screw will tilt the scraper blade forwardly and backwardly and so that relative variation of the length of the extensible shafts will raise or lower the extremities of said blade to tilt the latter.

2,309,751
POLE GUYING FIXTURE
Albert B. Chance, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri
Application February 23, 1942, Serial No. 431,960
18 Claims. (Cl. 24—115)



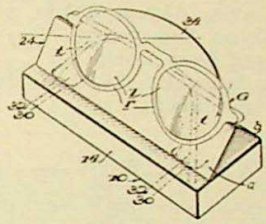
5. A pole guy fixture having means for attachment to a fixed body, comprising a pair of supporting side portions joined together by an integral yoke, said yoke being of substantially greater diameter than the diameter of a cable to be used with the fixture, and being substantially circular in cross section, said yoke having about its periphery a plurality of partially circular grooves adapted to receive cables of such size as to fit substantially in the grooves, the walls of said grooves supporting the sides of the cables against flattening, to diminish the inequality of strains on the strands of the cables, irrespective of the direction in which the parts of the cables extend from the fixture, both of said side portions having laterally and oppositely turned attaching flanges provided with apertures for receiving bolts or the like, and one of said attaching flanges having a depending pair of supporting plate portions arranged in planes transverse to the attaching flanges, said latter plate portions supporting a yoke of similar structure to the first-mentioned yoke.

2,309,752
METHOD AND APPARATUS FOR PRODUCING MAPS
Hereward Lester Cooke, Princeton, N. J., assignor to Aero Survey Corporation, a corporation of Delaware
Application April 6, 1940, Serial No. 328,175
24 Claims. (Cl. 88—24)



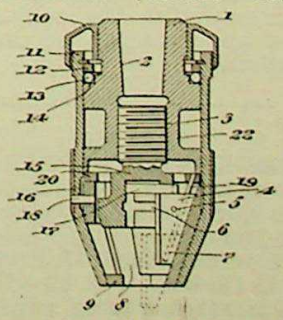
1. The method of preparing a photographic plan of terrain which consists in preparing a scale relief model of the terrain, projecting a photograph of said terrain, on said model in accurate registry therewith, the projection center corresponding with the position of the camera with respect to the terrain at the time the photograph was taken, taking a long distance photograph of said model with the photograph projected thereon, with camera axis effectively normal to the datum plane of said model, and producing a print of said photograph with grid lines thereon in predetermined position and in accurate registry with the planimetry of the physical features shown in the photograph, whereby a photographic plan is produced in which the location of objects represented in the photograph may be accurately determined with reference to said grid lines.

2,309,753
DISPLAY CARTON
Harold A. Cowles and Glenn W. Simpson, Rochester, N. Y.; said Cowles assignor to said Simpson
Application February 3, 1941, Serial No. 377,256
1 Claim. (Cl. 206—44)



In a carton for packaging and displaying a pair of sun glasses or similar article, a foldable box body including a bottom wall, front and rear walls, closure flaps providing end walls and a top wall, said walls and flaps providing a closed rectilinear carton adapted to contain and completely conceal a packaged article, the top wall having flap covered openings adjacent the forward edge thereof, a display flap forming an extension of the rear wall and having a curved cut intermediate its edges forming an opening and a display extension to said display flap, the display flap being foldable longitudinally to provide front and rear portions diverging downwardly to the top wall with the front diverging portion of the display flap having its forward longitudinal edge lying adjacent said flap covered openings in the top wall of the carton, said display flap and display extension, upon folding the display flap, lying in the same inclined plane for the support of the sun glasses or similar article with the temple rods of said article forced through the flap covered openings in the top of the carton, the carton being closed completely, except for the flap covered openings in the top wall, when the folded display flap is in position to support the sun glasses or similar article.

2,309,754
SELF-CENTERING CHUCK
Robert Crzellitzer, Vilvorde, Belgium; vested in the Alien Property Custodian
Application March 16, 1940, Serial No. 324,413
In Italy April 22, 1939
2 Claims. (Cl. 279—60)



1. A self-centering chuck comprising a chuck body, a clamping sleeve rotatable thereon, a plu-

rality of chuck jaws with outer bearing faces, a cage inside said sleeve, said cage having inclined internal bearing surfaces for the bearing faces of the jaws, said bearing surfaces taking the radial clamping effort of the chuck, means operated by rotation of said sleeve for axially moving the jaws, a ring adjacent, concentric and rotatable with the cage, and wire rods on said ring inclined toward the center of the chuck at the same angle of inclination as that of the said faces of the jaws, said rods engaging bores in the jaws extending parallel to their outer bearing faces.

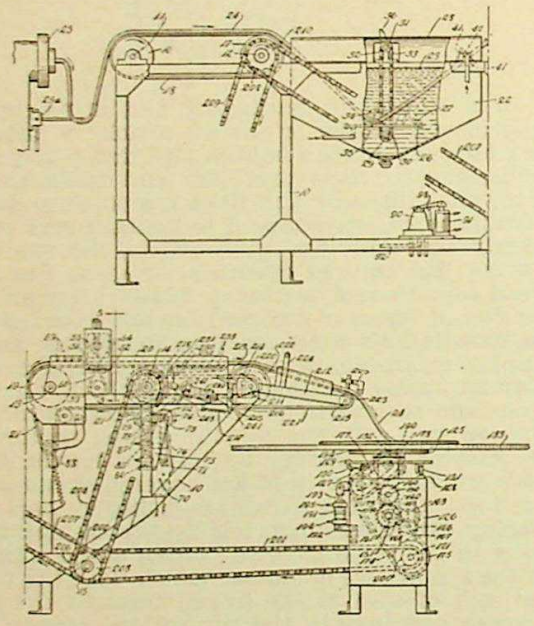
2,309,755

APPARATUS FOR HANDLING STRIP MATERIAL

Edward A. Davis, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application August 3, 1940, Serial No. 350,551

12 Claims. (Cl. 18—1)



12. Apparatus for handling strip material, said apparatus comprising means for continuously forming a strip of stretchable soft material, conveyor means for delivering the strip from said forming means, means for driving said conveyor means at a speed controlled by the speed of delivery from said forming means, measuring means associated with said conveyor means, cutting means in the path of the strip controlled by said measuring means for cutting the strip to desired lengths, coiling means driven from said conveyor means for coiling the strips in spiral coils, and means controlled by said measuring means for interrupting the coiling means and discarding scrap material between successive coiling operations.

2,309,756

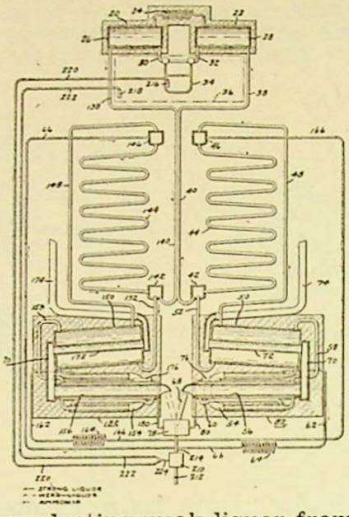
REFRIGERATING APPARATUS

Don E. Dasher, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application November 25, 1938, Serial No. 242,177

15 Claims. (Cl. 62—5)

2. Absorption refrigerating apparatus including evaporating means, a plurality of generating means, and a condensing means connected between each of said generating means and the evaporating means; means for alternately heating said generating means, said generating means being charged with a liquid absorbent;



means for conducting weak liquor from the generating means being heated to the condensing means connected to the second generating means for absorbing refrigerant from the evaporating means.

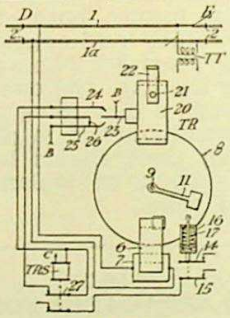
2,309,757

RAILWAY TRACK CIRCUIT APPARATUS

Arthur E. Dodd, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application July 31, 1941, Serial No. 404,824

4 Claims. (Cl. 175—320)



1. In a vane type relay having a vane pivoted for rotation in the field of an electromagnet, said vane being arranged to assume a rotated position dependent upon the energization of said electromagnet, the combination of a second magnet disposed with said vane in its field, means for pivoting said second magnet, a relay normally energized over a stick circuit including its own front contact and a contact normally closed but opened when said second magnet is caused to swing in one direction in response to a relatively rapid movement of said vane to its normal or released position, and a pick-up circuit for said relay completed over a contact closed when said second magnet is caused to swing in the opposite direction in response to a relatively rapid movement of said vane to its rotated position.

2,309,758

HYDRAULIC MACHINE CIRCUIT

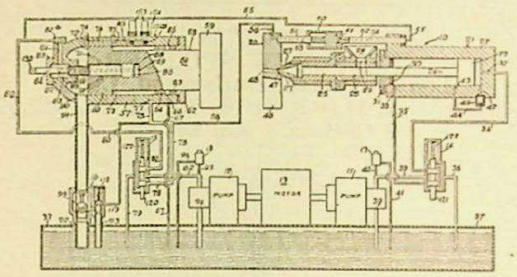
Walter Ernst, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del., a corporation of Delaware

Application May 5, 1939, Serial No. 272,011

4 Claims. (Cl. 60—52)

2. In a hydraulic press, a main cylinder having

a bore at one end thereof engaging a plunger to permit axial movement therein, a main ram arranged in said cylinder and having a main area and a booster chamber, said cylinder having a port for admitting pressure fluid to said booster chamber to cause a fast traverse movement of said main ram, a plunger having means thereon engaging said bore for permitting axial movement thereof in said bore, said plunger being provided with a passageway therethrough con-



tinuously effecting hydraulic communication between said port and said booster chamber, conduit means associated with said ram and responsive to a predetermined point of travel of said ram relative to said plunger for conveying fluid pressure from said booster cylinder to said main ram area to subject said ram to an increased pressure, and means operable from the outside of said press for varying said predetermined point of travel.

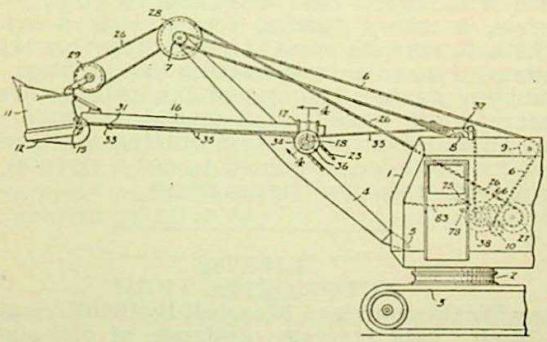
2,309,759

LINE CONTROL MECHANISM

Berlin S. Ferguson, Ravenna, Ohio, assignor to The Byers Machine Company, Ravenna, Ohio, a corporation of Ohio

Application September 15, 1941, Serial No. 410,808

14 Claims. (Cl. 214—146)



1. In line retrieving apparatus including a line drum, the combination with a rotating shaft of a planetary gear mounted on and actuated thereby for orbital movement about the rotational axis of the shaft, ring gears engaging the planetary gear and means rotatably mounting said ring gears, one of said ring gears having driving connection with said line drum and another of said ring gears having brake means associated therewith for retarding its rotation, and means operable to apply said brake means.

2,309,760

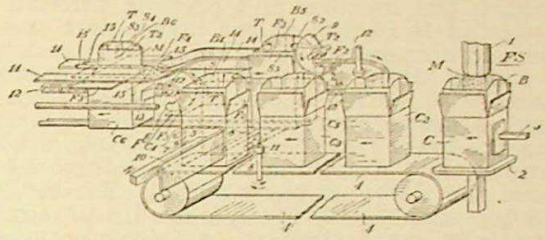
METHOD OF AND APPARATUS FOR CLOSING BAGS

George B. First, Philadelphia, Pa., assignor to Stokes and Smith Company, Summerdale, Pa., a corporation of Pennsylvania

Original application July 22, 1938, Serial No. 220,860. Divided and this application March 13, 1940, Serial No. 323,679

10 Claims. (Cl. 93—6)

1. The method of closing a bag after filling which comprises producing inturned tucks in opposite sides of the bag above the filling, progressively moving the other sides of the bag toward each other from end to end to form a flattened closure member with said tucks inturned at opposite ends thereof, progressively



creasing the flattened closure member from end to end, and, during movement of the bag, progressively folding the closure member sharply upon itself along the line of fold defined by the creasing to maintain the bag closed above the filling without recourse to extraneous means.

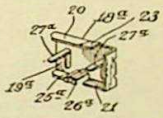
2,309,761

SCREEN CONSTRUCTION

William R. Fry, Brookline, Pa., assignor, by mesne assignments, to Continental Screen Company, Detroit, Mich., a corporation of Michigan

Application April 9, 1941, Serial No. 387,720

12 Claims. (Cl. 160—228)



7. An insert for slidably connecting the overlapping runner members of an extensible structure comprising a member of generally channel cross-section shape including bottom and side wall portions, a finger portion projecting from the bottom of the member in the direction of and adjacent one side wall portion thereof, said finger having its free end portion bent laterally outward to provide an engageable projection, and at least one other projection on said member in the same direction as the finger constituting a position maintaining stop for the member and the first finger, said finger and other projection being relatively spaced from each other.

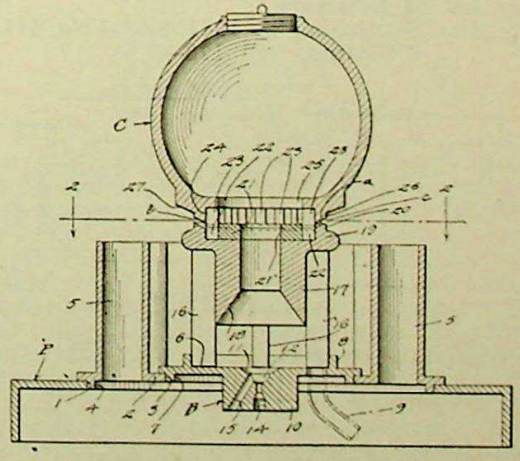
2,309,762

HYDROCARBON BURNER

Glenn D. Gearhart, Washington, D. C., assignor of one-fifth to Alfred Accola, Slater, Iowa

Application February 13, 1940, Serial No. 318,769

2 Claims. (Cl. 158—91)



1. A hydrocarbon burner, comprising a base member having a depressed top surface forming

a basin, said basin having a sump formed at its center, the base having two passages formed therethrough, one of which constitutes a fuel supply means and opens into the basin at the side of the sump, the other passage constituting an air supply means and extending vertically through the member and opening through the bottom of the sump at the lowest part thereof, and said air passage at its outlet being restricted to deliver air in the form of a blast, a mixing chamber supported above and spaced from the basin, a sleeve mounted upon the base member with the lower end thereof spaced from the base member, and a spacing member interposed between the sleeve and the mixing chamber, said spacing member having a plurality of circumferentially spaced fingers, said fingers supporting the mixing chamber with the lower end thereof spaced from the adjacent portion of the sleeve whereby a flame slot is provided, said spacing member having an opening in register with the bore of the sleeve.

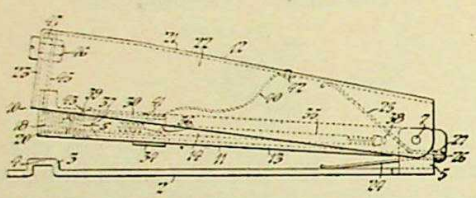
2,309,763

FASTENER-APPLYING DEVICE

Charles B. Goodstein, Brooklyn, N. Y., assignor to Boston Wire Stitcher Company, Warwick, R. I., a corporation of Maine

Application August 16, 1938, Serial No. 225,122

14 Claims. (Cl. 1—3)



1. In a device of the type indicated, a channel-shaped magazine having an open side extending longitudinally thereof and parallel spaced-apart vertical flanges at one end forming a throat therebetween, said magazine being adapted to hold a supply of staples extending thereacross and supported therein by the engagement of the ends of their legs with the bottom wall thereof, a cover pivotally mounted on the magazine to overlie the open side of the latter, and staple-driving means carried by the cover and movable relatively of the magazine for driving the staples through the throat.

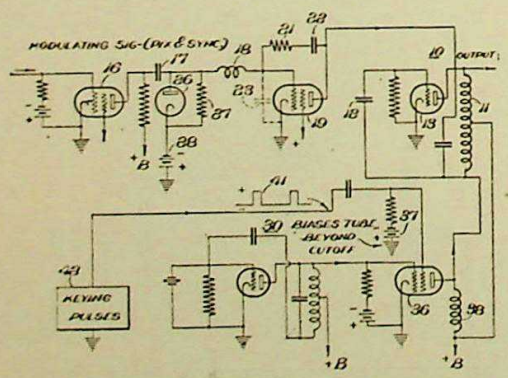
2,309,764

TELEVISION SYSTEM

Thomas Larimer Gottier, Westmont, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application September 23, 1941, Serial No. 411,949

5 Claims. (Cl. 178—7.1)



1. A radio transmitter comprising a carrier wave oscillator, means for frequency modulating said oscillator in accordance with a modulating signal having a maximum amplitude represented by a maximum deviation of said oscillator frequency to a predetermined frequency, a stable oscillator which oscillates at said predetermined frequency, means for supplying recurring control pulses, and means for coupling said stable oscillator to said carrier wave oscillator during the occurrence of said control pulses only.

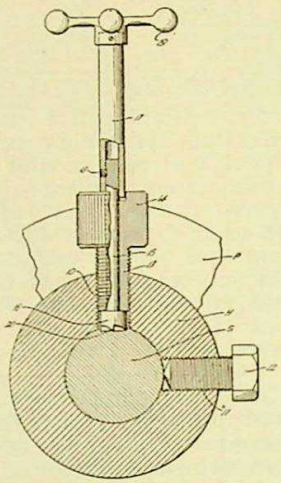
2,309,765

SETSCREW SPOTTER

Leo G. Haase, Hollywood, Calif.

Application May 6, 1940, Serial No. 333,591

2 Claims. (Cl. 90—12)



2. A device of the class described, comprising a hollow threaded member adapted to be screwed into a threaded hole designed to receive a set screw, a rotary cutting tool having a stem by which it may be rotated extending through the threaded member, said cutting tool having a head abutting against the end of the hollow threaded member and which is of smaller diameter than the threaded member, said cutting tool presenting cutting edges designed to cut a circular area to provide a seat for the set screw.

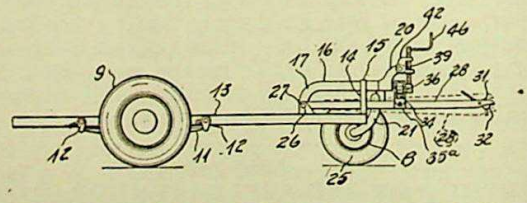
2,309,766

AUTOMOTIVE TRAIN

Ray W. Harroun and Maxwell K. Pribil, Saginaw, Mich.; said Harroun assignor of one-sixth to Helen M. Harroun, Saginaw, Mich., and said Pribil assignor of one-fourth to Severina Pribil, Saginaw, Mich.

Application September 16, 1939, Serial No. 295,306

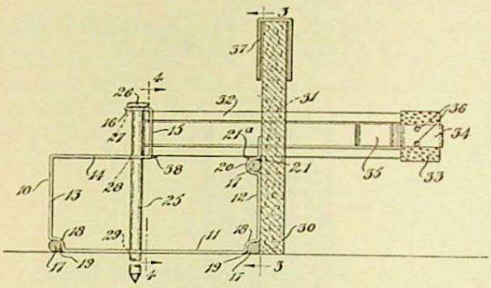
7 Claims. (Cl. 280—33.44)



1. A trailer vehicle of the class described and comprising a wheeled main frame adapted to be connected to a power vehicle and provided with a raised extension, a forked hitch tongue pivotally connected to said frame at a point spaced rearwardly from the end of said extension and having universal connection with the power vehicle, shackles pivotally mounted on said hitch tongue, a transversely disposed spring having its ends

connected to said shackled and adjustable means interposed between said raised extension and said spring for spacing them with relation to each other.

2,309,767
TRANSVERSE EXPANSION AND CONTRACTION JOINT
Francis O. Heltzel, Philadelphia, Pa.
Application December 10, 1940, Serial No. 369,411
4 Claims. (Cl. 94—18)

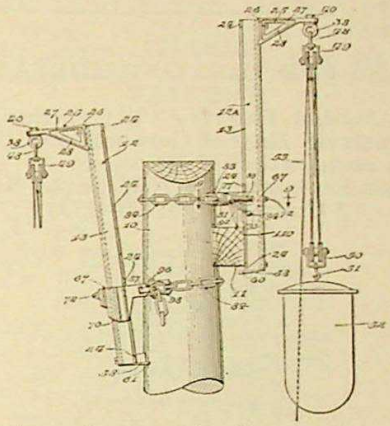


1. A trans-load joint for concrete roads comprising a supporting chair of strip material having a horizontal base portion and upright legs at the ends thereof, tie-rods fixed to the lower ends of both legs and to the upper portion of one leg, said tie rods extending between a plurality of similar chairs, said last named leg having a slot at its upper end, a horizontal portion at the upper end of the other leg, an upright extension at the end of the horizontal portion, and having a slot therein, said slots being in horizontal alignment, said upright extension terminating in a horizontal terminal flange, there being aligned apertures in said terminal flange, horizontal portion and base portion, a headed pin located through said apertures, a rigid, one-piece dowel member located through said slots, and rigidly connected to both legs, a vertical joint forming member located intermediate the ends of the dowel member and abutting the leg having the slot in its upper end for dividing the road into adjacent sections, the dowel member extending into each of the adjacent sections of the road to transfer loads from one section to the other and prevent relative vertical movement thereof.

2,309,768
PROCESS FOR PRODUCING POLYETHINES OR THEIR DERIVATIVES
Willy O. Herrmann, Deisenhofen, Upper Bavaria, and Wolfram Haehnel and Hans Deutsch, Munich, Germany; vested in the Alien Property Custodian
No Drawing. Application June 21, 1939, Serial No. 280,382. In Germany July 13, 1938
6 Claims. (Cl. 260—73)

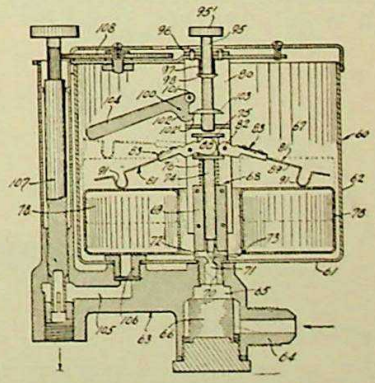
1. Process for the production of polymers of the formula $(C_2H_2)_x$ where x is the number of units in the polymer which comprises heating a polymer of a compound having the vinyl $CH_2{=}CH{-}$ group attached thru oxygen to the remainder of the molecule, said polymer being selected from the class consisting of esters, acetals, and ethers of polyvinyl alcohol, said heating being at a temperature, of at least about 250° C., such that the hydroxyl compound forming the vinyl polymer in combination with the hydrocarbon polymer is split off, removing the liberated hydroxyl compound and stopping the reaction before the hydrocarbon polymer is substantially attacked.

2,309,769
TRANSFORMER GIN
David C. Hubbard, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri
Application September 12, 1941, Serial No. 410,565
6 Claims. (Cl. 248—231)



1. In a transformer gin, the combination of a column member adapted to extend substantially longitudinally of a line pole, said column member comprising a pair of structural steel members nested and welded together, said structural steel members each having a pair of diagonally extending flanges joined by a substantially flat yoke, means carried by one end of said column for attachment of a load, and prolonged means carried by the other end of said column for engagement in the wood of a pole, and a metal securing fixture carried intermediate the ends of said column, having a chain secured to one side thereof and adapted to extend about a pole having means for engaging the other end of said chain and tightening the chain about the pole.

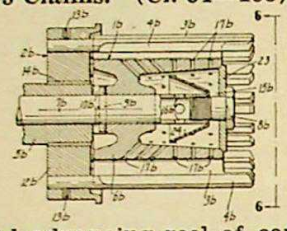
2,309,770
CONSTANT LEVEL DEVICE
Roy W. Johnson, Milwaukee, Wis.
Application February 3, 1940, Serial No. 317,062
3 Claims. (Cl. 137—68)



1. A constant level device of the character described comprising a casing having a liquid supply chamber provided with an inlet, a valve cooperable with the inlet for regulating flow therethrough, an annular float surrounding the valve, a lever fulcrumed in the casing and having an arm controllably interrelated with the valve and a yieldable arm overlying and engageable with the float whereby the float is operable normally to maintain a selected liquid level in the chamber, a safety cut-off member overlying the valve and biased to punch the same to closed position, and a latch normally retaining the cut-off mem-

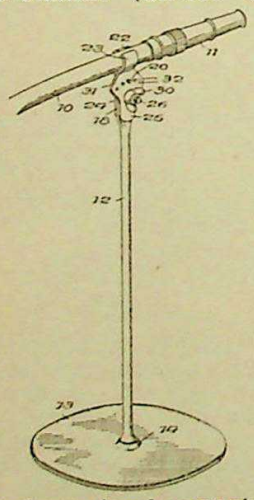
ber against operation and having a trip member overlying the float, said float being engageable with the trip to release said latch when the float is abnormally buoyed up by rise of level of the liquid in the chamber above the selected level, said yieldable arm of said lever permitting such action by the float.

2,309,771
MEANS FOR TREATING THREAD OR THE LIKE
Lavern J. Jordan, Fairview Village, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application September 12, 1939, Serial No. 294,455
5 Claims. (Cl. 34—153)



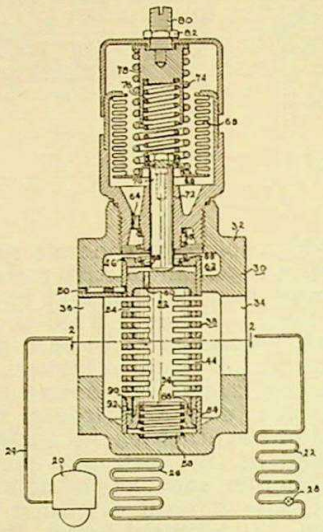
1. A thread-advancing reel of cantilever construction comprising a first reel member having a plurality of spaced longitudinally extending bar members; a second reel member mounted for rotation in offset and inclined relation to said first reel member having a plurality of spaced longitudinally extending bar members which interdigitate with those of the first reel member; a hollow member supporting the first reel member; a chamber in said reel member and around said hollow member, said hollow member being provided with conduits communicating with said chamber; openings extending through the wall of the first reel member between the chamber and the exterior of said reel member; and guide means within said chamber for directing a temperature-changing fluid admitted thereto by the hollow member toward the openings.

2,309,772
GARDEN HOSE STAND
Manasse Karger, New Orleans, La.
Application July 10, 1942, Serial No. 450,460
5 Claims. (Cl. 248—82)



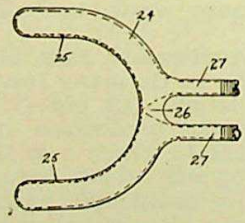
1. A garden hose stand comprising a standard having a flat perforated part with cam surfaces, locking means fixed to said part, clamp members for fitting at opposite sides of the flat part and so related to the flat part that the lower edges of the members are fulcrumed on the cam surfaces, a screw fixed on one member and passing through the perforated part and through the companion member, said companion member having an intermediate segment part with spaced perforations for selectively engaging said locking means, and a nut threaded on the screw.

2,309,773
REFRIGERATING APPARATUS
Daniel L. Kaufman, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application March 29, 1941, Serial No. 385,909
9 Claims. (Cl. 62—3)



1. Refrigerating apparatus including compressor, condenser and evaporator means connected in a closed refrigerant circuit, a valve means located in said circuit between the outlet of the evaporator means and the inlet to the compressor means, a single pressure operated fluid motor for operating said valve means to open and closed positions, and means for subjecting the pressure operated fluid motor to evaporator pressure when the suction pressure is low and to compressor inlet pressure when the suction pressure is high.

2,309,774
VENTILATOR
Hearl M. Kistler, Youngstown, Ohio
Application June 3, 1941, Serial No. 396,407
2 Claims. (Cl. 4—213)

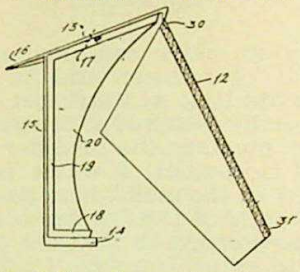


1. A ventilator ring adapted to be attached to a toilet and comprising a U-shaped hollow body member, a plurality of orifices formed in the said hollow body member about its innermost edge, a partition formed in the said hollow body member and a pair of flexible tubular members in communication with the said hollow body member, one positioned on either side of the said partition, and so arranged that air may be withdrawn therethrough.

2,309,775
SHOE LAST
Nathan V. Levitt, New York, N. Y.
Application July 24, 1942, Serial No. 452,235
1 Claim. (Cl. 12—133)

A shoe last having a convex heel seat, an integral depressed portion extending forwardly therefrom as far as the junction of the shank and ball portions thereof, the depressed portion being of an extent to underlie the external longitudinal arch of the corresponding foot to counteract a tendency to pronation, and an enlarged portion adjacent the internal ball portion of the last.

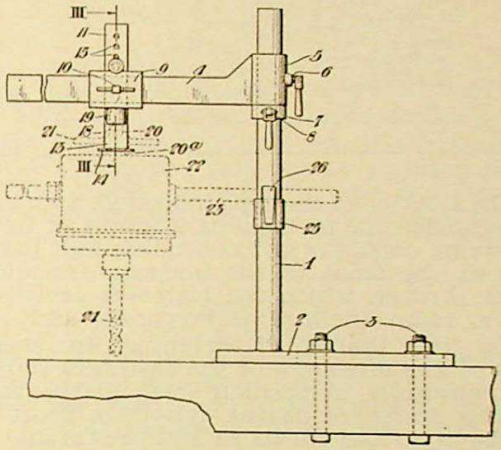
2,309,776
HEEL
Paul Mariani, New York, N. Y.
Application August 25, 1941, Serial No. 408,234
8 Claims. (Cl. 36—34)



1. In a heel of the character described, a frame having a base portion, a sole portion, a front wall extending therebetween, forming a rearwardly open frame with said two portions, said portions each having a rabbeted edge forming a U-shaped abutment at the inner side thereof, said front wall having rabbeted edges forming side abutments connecting said U-shaped abutments, a shell having a substantially U-shaped section, insertable between said two portions with its edge portions registering with and resting against said abutments, and means for retaining said shell in position.

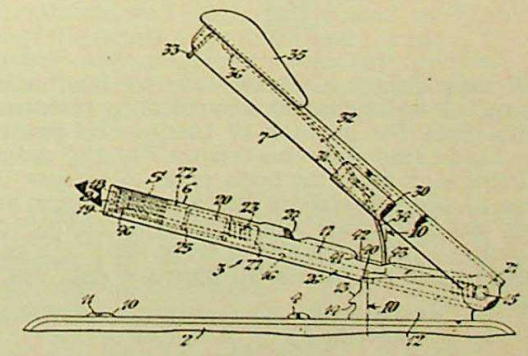
2,309,777
PORTABLE POWER DRILL SAFETY SUPPORT
Adolph Lewis Kowalske, Rogers City, Mich.
Application August 14, 1941, Serial No. 406,922
4 Claims. (Cl. 77—7)

1. A support for a portable power tool of the type having a positioning means at the top portion of the portable tool and also having a conventional type of vertical feeding means formed as a composite part of the portable tool, said power tool also having a steadying arm extending from the frame thereof, said support including a supporting post, means for securing the post in upright position, a tool-supporting arm extending radially from said post, mounted for vertical movement on, and rotary movement about, said post, plural clamping means mounted and movable independent of each other, one of which is movable with the arm and is arranged to simultaneously restrain the arm against either vertical or rotary movement relative to the post, and the second clamping means being arranged to support the arm on the post at various heights without restraint of rotary movement of the arm or vertical upward movement of the arm to facilitate withdrawal or repositioning of the portable power tool, and including a tool-supporting and centering block movable along said radially extending arm, a tool-positioning and centering means arranged on said block, and a tool-supporting arm carried by said block so arranged and disposed as to support the tool and carry the main weight thereof and including means arranged to clamp said tool-supporting arm in fixed position, and a tool-steadying means



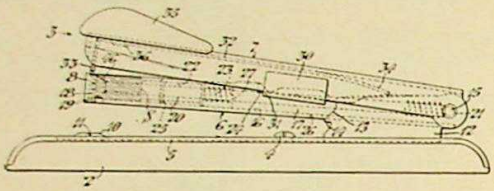
mounted on said post and adapted to receive the end of said steadying arm extending from the frame of the power tool, said tool-steadying means including a collar freely slidable upon and rotatable about said post support whereby said tool-steadying means is effective to function automatically without manual adjustment for all movements of the portable power tool in a horizontal plane radially or circumferentially of the post or in a vertical plane.

2,309,778
FASTENER-APPLYING IMPLEMENT
Arthur H. Maynard, Warwick, R. I., assignor to Boston Wire Stitcher Company, Warwick, R. I., a corporation of Maine
Application April 2, 1941, Serial No. 386,488
7 Claims. (Cl. 1—3)



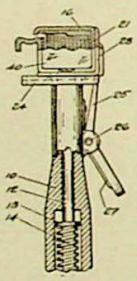
1. In a device of the type indicated, a base, a magazine-arm mounted for movement toward and away from the base, fastener-applying means mounted for movement on the magazine-arm to drive fasteners therefrom, said magazine-arm having a normal range of movement with respect to the base, and detent-means operative between the magazine-arm and fastener-applying means to prevent their relative movement toward each other when the magazine-arm is raised beyond its normal operative position with respect to the base.

2,309,779
MAGAZINE FOR FASTENER-APPLYING INSTRUMENTS
Arthur H. Maynard, Warwick, R. I., assignor to Boston Wire Stitcher Company, Warwick, R. I., a corporation of Maine
Original application April 2, 1941, Serial No. 386,488. Divided and this application January 28, 1942, Serial No. 428,584
5 Claims. (Cl. 1—3)



1. In a device of the type indicated, a channel-shaped magazine for holding a supply of fasteners having crossbars and depending legs, parallel walls at the front of the magazine forming a throat through which the fasteners are driven, and a ramp inclined downwardly and rearwardly from the top of the throat for engagement by the crossbars of the fasteners to guide them upwardly to position them in the throat whereby fasteners having relatively short legs may be lifted and advanced into the throat.

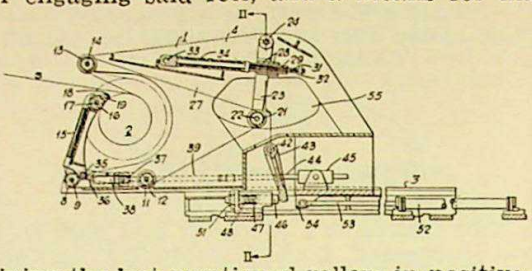
2,309,780
MAGAZINE FOR SAFETY RAZORS
Joseph Muros, Cambridge, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application September 18, 1941, Serial No. 411,287
9 Claims. (Cl. 206—16)



1. A magazine for safety razor blades, having sheet metal walls shaped to provide a rectangular enclosure for a stack of blades and to provide a blade exit slot, the top wall of the magazine being cut away at both ends to expose the surface of the uppermost blade in the stack and having an internal longitudinal shoulder for positioning a blade advanced from the stack part way out of the magazine through the exit slot.

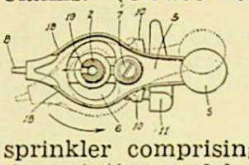
2,309,781
BELT WRAPPER
Jeremiah W. O'Brien, Pittsburgh, Pa., assignor to United Engineering and Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 4, 1940, Serial No. 351,300
10 Claims. (Cl. 242—78)

1. In combination with a reel for coiling metallic strip, a belt wrapper comprising spaced vertical frames, a plurality of sets of rollers mounted therebetween over which a plurality of belts are restrained to pass, one set of rollers yieldably supported for maintaining the belt taut at all times, a second set of rollers pivotally mounted for engaging said reel, and a means for main-



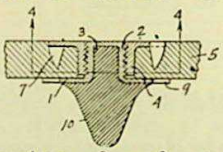
taining the last mentioned rollers in positive engagement with the reel.

2,309,782
ROTARY SPRINKLER
Fingal C. Orr, Glendale, Calif.
Application May 16, 1941, Serial No. 393,710
16 Claims. (Cl. 299—69)



1. A rotary sprinkler comprising a sprinkler head mounted for rotation and having a radial nozzle for projecting a water jet, an impulse member normally extending lengthwise of the nozzle, means pivoting the member on the head for swinging movement, a water engaging element mounted on the member in position to project into the path of the jet when said member is in a normal position so that the jet will cause the member to swing from such position, means to impart a rotative thrust to the head with each complete swinging cycle or movement of the member, and water jet actuated means to return the member to said normal position after it has been swung.

2,309,783
CLEAT FOR USE ON ATHLETIC SHOES
Tracy S. Park, Houston, Tex.
Application October 28, 1941, Serial No. 416,791
5 Claims. (Cl. 36—59)



1. A cleat structure for shoes comprising a base plate formed of metal and having an integral threaded shank provided with a socket, an outwardly tapering cleat formed of resilient material molded into the socket and bonded to said metal.

2,309,784
BROILER
Anthony Peron, New York, N. Y.
Application July 19, 1939, Serial No. 285,301
1 Claim. (Cl. 126—41)

Cooking apparatus, comprising in combination, a lower, open flame broiler chamber, a closed broiler chamber above said first chamber and open to the front of the apparatus and a warming oven above said second broiler chamber and having a door at the front of the same, the floor of the second chamber and roof of the first chamber being formed by a downwardly and forwardly inclined ridged broiler plate, a heating

and waste products flue extending from beneath the rearward upper end of said inclined broiler plate, upwardly at the back of the apparatus, thence forwardly over the top of the second chamber, thence rearwardly beneath the warming oven, upwardly at the back of the warming oven, forwardly over the top of the warming oven and thence rearwardly to an escape outlet, and a burner in the lower open flame broiler chamber directly beneath said forwardly inclined broiler

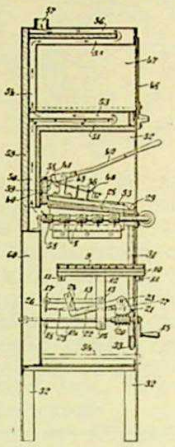


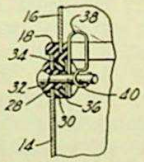
plate for directly heating said broiler plate, for furnishing the heat for cooking in the lower open flame broiler chamber and for supplying heat to the top warming oven through the aforesaid flue construction, said flue being insulated at the back and insulated where it extends up at the back and over the top of said second chamber to thereby conserve and carry heat to the open above said second chamber.

2,309,785

CLOSURE CONSTRUCTION

Howard C. Porter and Arthur P. Schulz, South Bend, Ind., assignors to Bendix Home Appliances, Inc., South Bend, Ind., a corporation of Delaware

Application December 24, 1940, Serial No. 371,576
4 Claims. (Cl. 292—202)



2. A closure latch for use with a closure plate member adapted to fit an opening in a wall member, said latch comprising a grommet extending through said plate, a pin extending rotatably through the grommet and a wire extending diametrically through the pin and including a bent-back portion having a ring portion encircling the end of the pin.

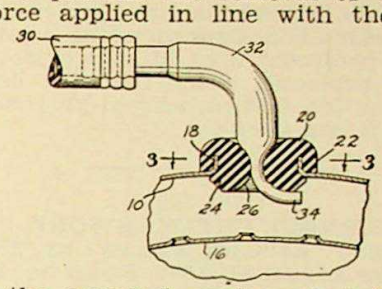
2,309,786

CLEANING MACHINE

Howard C. Porter, South Bend, Ind., assignor to Bendix Home Appliances, Inc., South Bend, Ind., a corporation of Delaware

Application January 18, 1941, Serial No. 374,977
3 Claims. (Cl. 285—90)

1. In combination, a fluid receiving tank having an opening through its wall, a rubber grommet secured in the opening, said grommet having a slot-shaped opening therethrough, one cross section of the grommet having the interior shape of the interior of an anchor ring, and a removable nozzle fitting said grommet opening and having a portion lying against the inner part of the grommet at one side of the grommet opening to prevent the removal of the nozzle by a force applied in line with the opening



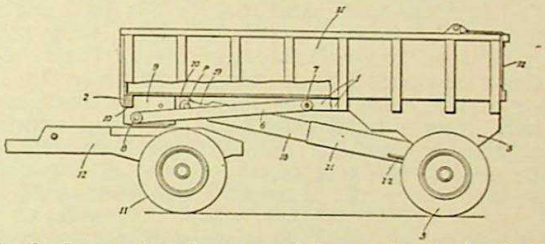
through the grommet, said nozzle being readily removable from the grommet by rotation on an axis lying within the grommet and parallel with the slot-shaped opening therein and parallel with the tank wall in which the grommet is secured.

2,309,787

DUMP TRUCK

Roger A. Quintin and Emery W. Graham, Stockton, Calif.

Application January 26, 1942, Serial No. 428,192
11 Claims. (Cl. 298—20)



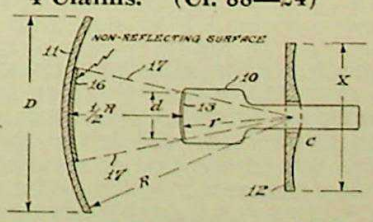
1. A dump truck comprising a body including a rigid frame, forward and rear wheel assemblies normally supporting the body in carrying position, the body being separate from the forward wheel assembly and mounted on the rear wheel assembly for upward and rearward swinging movement to dumping position, transversely spaced, longitudinally extending draft links pivoted at their forward ends on the forward wheel assembly and pivoted at their rear ends on the body frame, and telescopic means connected between the wheel assemblies and arranged to effect relative approaching movement thereof; said draft links being operative upon approaching movement of said wheel assemblies to so swing the body.

2,309,788

REFLECTIVE PROJECTION SYSTEM

Edward G. Ramberg, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware

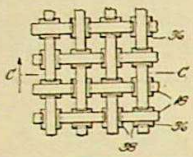
Application November 29, 1940, Serial No. 367,817
4 Claims. (Cl. 88—24)



1. In a projection system, an object to be projected upon a projection screen, a concave spherical mirror positioned to project said object upon said screen, and a correcting plate positioned at least approximately at the center of

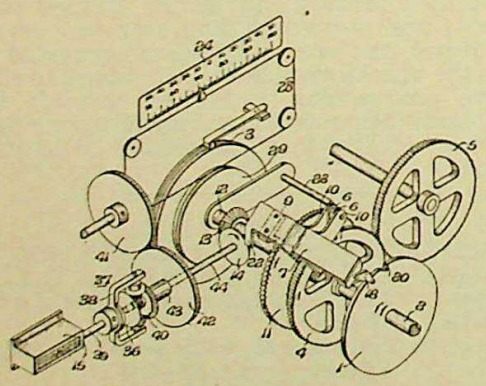
curvature of said mirror and shaped or figured to correct for spherical aberration, said mirror having a nonreflecting central area which is not substantially less than the projected area of said object on the mirror as projected by parallel lines and which is not substantially greater than either the projected area of said object on the mirror as projected from the said center of curvature or the first mentioned projected area, whichever is the greater.

2,309,789
FURNACE CHECKERWORK
George P. Reintjes, Kansas City, Mo.
Application August 31, 1940, Serial No. 355,039
3 Claims. (Cl. 263—51)



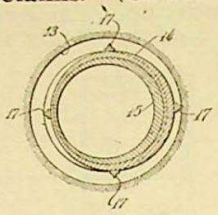
1. A refractory checkerwork comprising a plurality of refractories forming a plurality of spaced vertical flues, and inserts having a higher coefficient of heat conductivity per unit mass than that of the refractories having their body portions embedded in openings leading to the interior of the refractories forming the flues, each of said inserts having at least one end exposed in a flue to conduct heat to and from the interior of the refractories.

2,309,790
INTEGRATING APPARATUS
Raymond W. Ross, Philadelphia, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 12, 1942, Serial No. 434,351
3 Claims. (Cl. 235—61)



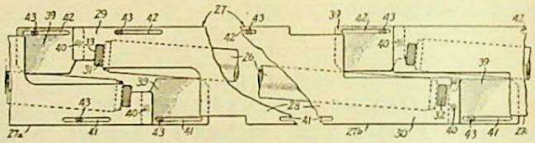
1. Integrating apparatus comprising a driven member, operating means therefor including a driving member rotatable at constant average speed with respect to said driven member and movable relative to the axis of rotation into and out of driving engagement with said driven member, two relatively adjustable structures alternately cooperating with said driving member to effect its aforesaid movements toward and from said driven member, and means for varying the positions of both said members in response to change in magnitude of a condition.

2,309,791
METHOD AND APPARATUS FOR CEMENTING WELLS
Clyde S. Sanders, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application September 13, 1940, Serial No. 356,677
5 Claims. (Cl. 166—1)



5. In the process of casing a well the steps comprising conditioning the face of the well bore by rotating the well casing as it is lowered through at least a portion of the well depth, passing a cement slurry downwardly within said casing, flowing said cement upwardly outside the casing, and controllably wobbling the casing in the cementing zone while placing the cement, thereby effecting improved mud displacement and cementing.

2,309,792
LIGHTING FIXTURE
Lindsley Schepmoes, New Haven, Conn., assignor to The Safety Car Heating and Lighting Company, Inc., a corporation of Delaware
Application September 24, 1940, Serial No. 358,052
4 Claims. (Cl. 240—78)

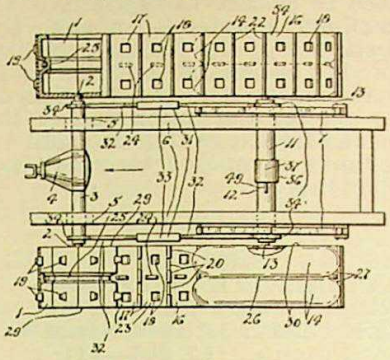


1. In lighting apparatus, in combination, a trough member, a series of supporting plates mounted on said trough member, tongues formed on and extending outwardly from opposite sides of the ends of each of said supporting plates, sockets mounted on each of said tongues, and a tube lamp mounted on each pair of sockets, whereby said tube lamps extend diagonally across each of said supporting plates, each of said tube-lamp supporting plates being positioned in said series with its tongues positioned alongside of the tongues of its adjoining plates, whereby said plates may be moved longitudinally with respect to each other while maintaining the ends of said tube lamps in overlapping relationship.

2,309,793
PROPELLING ATTACHMENT
James Sedore and Alexander A. Smith, Grande Prairie, Alberta, Canada
Application November 1, 1940, Serial No. 363,948
In Canada July 2, 1940
5 Claims. (Cl. 180—9.1)

1. A propelling attachment for trucks and like vehicles comprising in combination a pair of sprockets secured to the drive shafts of said vehicle, a sub-axle and a pair of dual wheels thereon, a pair of endless tracks each comprising a plurality of hingedly connected traction plates having a plurality of apertures formed therein, designed to engage the teeth of said sprockets, a plurality of inwardly projecting lugs secured to the underside of said plates, said lugs engag-

ing a perimetrical groove formed medially the width of said sprockets and a further V-shaped



groove existing between the abutting perimetrical edges of said dual wheels.

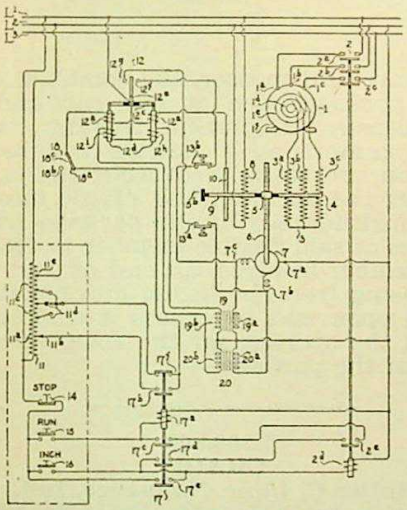
2,309,794

CONTROLLER FOR INDUCTION MOTORS

Edwin W. Seeger, Wauwatosa, Wis., and Carroll Stansbury, Chevy Chase, Md., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Application February 23, 1942, Serial No. 432,062

6 Claims. (Cl. 172—179)



1. In a system operable at different speeds, in combination, an electric motor, a variable resistor for regulating the speed of said motor, electromagnetic reversing means adapted to vary said resistor, a potentiometer receiver supplied with a constant input voltage and affording a variable output voltage, means connected to said reversing means and arranged to vary the output voltage of said receiver in accordance with the variations of said regulating resistor, a potentiometer sender supplied with a constant input voltage and provided with means affording a first output voltage corresponding to a desired running speed, and a second output voltage corresponding to a creeping speed of said motor, means adapted to control said reversing means in response to the difference between the output voltage of said receiver and one of the output voltages of said sender, means to subject said last mentioned means to the output voltage of said receiver and of the first sender output voltage, and associated means operable under certain conditions to automatically terminate the influence of said first sender output voltage upon said voltage difference responsive means and to subject said means to the influence of said second sender output voltage.

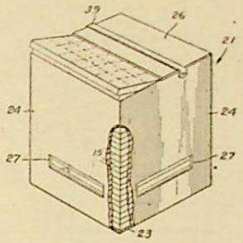
2,309,795

METHOD AND DEVICE FOR HANDLING STACKS OF RESILIENT ARTICLES

Bertram L. Siegel, San Francisco, Calif.

Application May 14, 1940, Serial No. 335,195

6 Claims. (Cl. 312—35)



1. A holder for a compressed stack of superposed individual spring set units, comprising a container to receive said stack, the length of the container being shorter than the expanded length of less than half of the units in the stack, and a partial obstruction at an opening of said container preventing the removal of the entire stack, the size of the opening left free being such as to accommodate only such portion of the adjacent unit expanded by its own resiliency to the outside of the container that permits the pulling out of said unit but holds compressed the remaining portion of the unit until it is pulled out of the container.

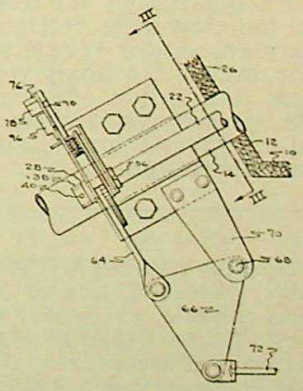
2,309,796

STEERING COLUMN BRAKE ACTUATOR

Samuel A. Snell, Jackson, Mich., assignor to Townsend F. Beaman, Jackson, Mich., as trustee

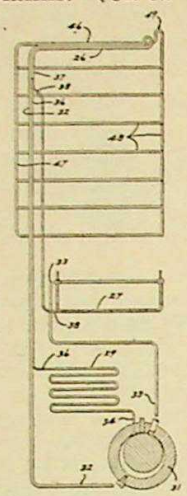
Application February 24, 1940, Serial No. 320,589

2 Claims. (Cl. 74—485)



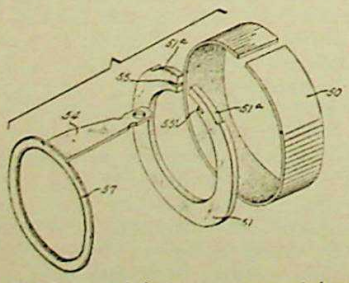
1. In a parking brake system for association with an automobile having a steering column carrying a steering wheel, a parking brake actuator comprising a shaft of substantial length for extending along the said column to a point adjacent the underside of the steering wheel, a lever connected to said shaft for at least partially rotating the said shaft and accessible for swinging movement by the driver directly below the steering wheel, a motion reducing mechanical advantage providing unit located at the lower end of said shaft and connected thereto, a connection between said unit and the brake, said motion reducing unit comprising clutching mechanism brake applying means operable when said lever is swung through one arc in one direction, and brake releasing means operative when said lever is swung through another arc in the opposite direction.

2,309,797
REFRIGERATING APPARATUS
Carl A. Stickel, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application August 20, 1941, Serial No. 407,621
5 Claims. (Cl. 62—99)



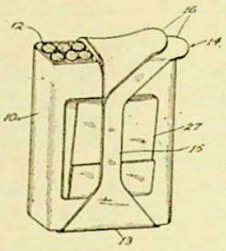
1. A refrigerating apparatus comprising in combination, a cabinet having an upper food storage compartment and a lower food storage compartment therein, a closed primary refrigerating system including a first evaporator in the upper part of said cabinet and a second evaporator disposed in heat exchange relationship with said lower food compartment for cooling same, a closed secondary refrigerant circuit containing a volatile liquid and including a condensing portion in intimate heat exchange relationship with said first primary evaporator and an evaporating portion located therebelow and disposed in heat exchange relationship with said upper food compartment for cooling same, conduit means for conveying refrigerant from said first primary evaporator to said second primary evaporator, and said primary refrigerating system including a multiple effect compressor having separate conduit connections with each of said evaporators thereof for withdrawing refrigerant directly therefrom.

2,309,798
VARIABLE RESISTANCE
Erwin R. Stoekle, deceased, late of Milwaukee, Wis., by Lillian Stoekle, executrix, Milwaukee, Wis., assignor to Globe-Union Inc., Milwaukee, Wis., a corporation of Delaware
Original application December 5, 1935, Serial No. 53,139. Divided and this application May 2, 1941, Serial No. 391,478
5 Claims. (Cl. 201—55)



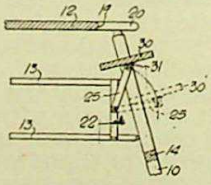
5. A variable resistance comprising a housing having a curved inner wall, a resistor disposed against said wall and comprising a thin, flexible strip having a resistive coating applied to its inner surface, terminals engaged with the resistor, a separate split ring having notched ends adapted to engage the terminals and having its periphery adapted to engage the inner peripheral surface of the resistor, said split ring being adapted to be expanded outwardly to clamp the terminals against the resistor and to clamp the resistor against the inner wall of the housing, and means for expanding the split ring outwardly including a tapered terminal cooperable with the ends thereof.

2,309,799
CIGARETTE DISPENSER
Mario Tanzi, Chicago, Ill.
Application November 13, 1940, Serial No. 365,410
1 Claim. (Cl. 206—41)



In a cigarette dispenser, the combination of a cigarette package open at one end and a removable closure attachment therefor, said attachment comprising a flexible member positioned upon and entirely covering said open end and closing the opening, and elastic means extending longitudinally of the package from opposite sides of said flexible member to retain the flexible member in place, an end of said flexible member being free for flexing movements away from said open end to expose a complemental portion of the opening for the removal of cigarettes from the package.

2,309,800
CHAIR
Walter C. Uline, Nappanee, Ind.
Application April 17, 1940, Serial No. 330,005
3 Claims. (Cl. 155—171)

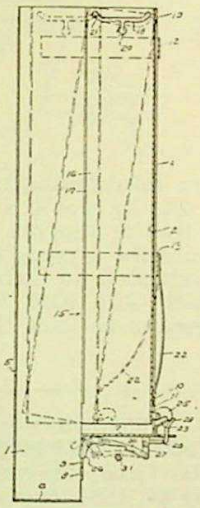


1. In a high chair, the combination of a seat, front and rear legs supporting said seat, a pair of rungs connecting the front and rear legs at each side of the chair, a pair of brackets each secured at its opposite ends to adjacent rungs in substantially vertical position, an arm pivoted at one end to each bracket, a foot rest, means pivotally mounting each end of said foot rest on the free end of said arm, and means for locking the pivot connections between said arms and said foot rest and between said arms and said brackets in desired angular adjustment.

2,309,801
GALVANIZED STEEL AND PROCESS OF MAKING SAME
Nicholas P. Veeder, St. Louis, Mo., assignor to Granite City Steel Company, Inc., Granite City, Ill., a corporation of Delaware
No Drawing. Application June 27, 1941, Serial No. 400,101
3 Claims. (Cl. 148—4)

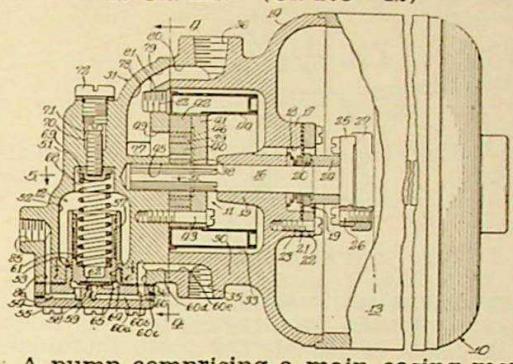
1. The improvement in the process of manufacturing galvanized sheet steel which consists in producing a slab of low carbon steel containing more than .12 per cent but less than 1.5 per cent of silicon, converting said slab into a ductile sheet having the preferred orientation of its iron crystallites characteristic of severely worked steel, and dipping said sheet in molten zinc.

2,309,802
VENDING MACHINE MAGAZINE
Francis Donald Vogel, Columbus, Ohio
Application May 28, 1941, Serial No. 395,643
2 Claims. (Cl. 312—42)



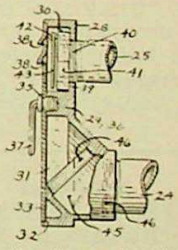
2. A vending machine magazine of the character described comprising a compartment for the reception of front and rear stacks of merchandise, said compartment including a back wall having an opening in its lower portion, an angular keeper, having a slot therein, mounted on said back wall adjacent the opening, a chute pivotally suspended in the back portion of the compartment, a spring operatively engaged with said chute for swinging the lower end thereof into the front portion of the compartment, a pivoted hook on said chute engageable with the keeper through the opening, an oscillating shaft of polygonal cross-section, a bell crank lever pivotally mounted on the compartment, a cam finger on one end of said bell crank lever operable in the slot and engageable with the hook for disengaging said hook from the keeper for freeing the chute for actuation by the spring, a ratchet bar pivotally connected to the other end of the bell crank lever, said ratchet bar extending transversely across the shaft and being engageable thereon for actuation thereby for rocking the bell crank lever, and means controlled by the front stack of merchandise for supporting the ratchet bar out of engagement with the shaft.

2,309,803
PUMPING UNIT
Gunnar A. Wahlmark, Rockford, Ill.
Application May 19, 1941, Serial No. 394,092
12 Claims. (Cl. 103—42)



1. A pump comprising a main casing member having a cup-shaped recess forming an intake chamber and having an open end and intake and discharge ports adapted for connection to external conduits of a fluid circuit to become a substantially permanent part of the circuit, a removable closure for the open end of said main casing member to complete the intake chamber, pumping means mounted in the intake chamber, and a valve controlling the fluid discharged by said pumping means housed in said end closure and carried thereby to be removable therewith without disturbing the external conduit connections.

2,309,804
SIGNALING DEVICE FOR CLOSED TANKS
Theodore C. Smith, Philadelphia, Pa.
Application March 1, 1940, Serial No. 321,741
7 Claims. (Cl. 116—109)

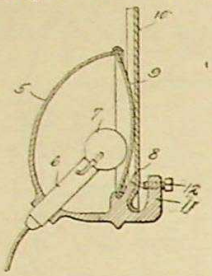


1. In a signaling device adapted to be used in connection with a closed tank for liquids, and having a filling pipe and a vent pipe connecting said device with sand tank, a junction box remote from said tank, and in which terminate open ends of said pipes in spaced relation to one another, a signal supporting member within said box positioned above the outlet of said vent pipe therein, and a dangling signal piece hanging to said supporting member, positioned within said box, to hang in front of the outlet of said vent pipe, within said box, and adapted to be shaken in a current of air, coming from said vent pipe.

2,309,805
LIGHT FOR LICENSE PLATES
Daniel Warren Tiffany, Helena, Mont.
Application September 12, 1941, Serial No. 410,642
1 Claim. (Cl. 240—7.1)

An auxiliary light for illuminating motor vehicle license plates, comprising a substantially semi-spherical shaped body having an open side, a concavo-convex lens closing the open side of the body, the convex surface of the lens adapted to rest directly against the front of the license plate with which the auxiliary light is used, the

open side of the body being only slightly spaced from the license plate whereby light rays may flood the license plate, a clamp formed on the body adjacent to the lower edge of the body and adapted to clamp over one edge of the license



plate, and an electric lamp supported within the body and adapted to direct light rays directly onto the face of the license plate illuminating the license plate.

2,309,806

PRODUCTION OF MONOHALONITROMETHANES

John B. Tindall, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application December 6, 1940, Serial No. 368,905

3 Claims. (Cl. 260—644)

1. In the process for the preparation of a monohalonitromethane by halogenating an aqueous solution of a basic metal salt of nitromethane, the improvement which comprises increasing the yield by inhibiting the formation of polyhalogenated nitromethanes by simultaneously bringing in contact approximately equivalent reacting molar quantities of an aqueous solution of nitromethane and an alkali metal hydroxide while simultaneously halogenating the resultant salt as formed, before any substantial decomposition thereof, there being substantially no excess basic material present as halogenation occurs.

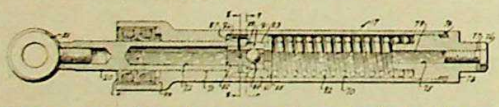
2,309,807

ATTACHMENT FOR MACHINE GUN CRADLES

John C. Trotter, Buffalo, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y., a corporation of New York

Application January 18, 1940, Serial No. 314,542

4 Claims. (Cl. 89—42)



1. In a construction for dampening the recoil of a machine gun, a cylinder having a chamber open at one end toward the forward end of the gun, a piston rod slidable in said open end of the cylinder, means closing the other end of the chamber, a head carried by the piston rod and reciprocable in the chamber, a recoil spring within the chamber to dampen the longitudinal recoil movement of the piston rod when the cylinder is in a substantially horizontal plane, a bore in the piston rod, said piston having a passage therethrough communicating with said bore, a valve chamber in the passage in the piston head, a check valve in said valve chamber, liquid partially filling the bore of the piston rod and the chamber when the cylinder is in a substantially horizontal plane, and a restricted by-pass passage in the piston head providing communication between the valve chamber and piston rod bore, said check valve being constructed and arranged to open upon flow of liquid from the bore into the chamber for the free flow of liquid from the bore into the chamber upon inclination of the cylinder to bring the chamber to a level below that of the piston rod bore, and to close upon flow of liquid in the opposite direction, whereby resistance to displacement of the piston toward the closed end of the chamber, in addition to that of the spring, when the cylinder is substantially horizontal is effected by compression of the air above the liquid level and when the cylinder is inclined and the chamber is filled with liquid the resistance is effected by the restricted flow of liquid through said by-pass.

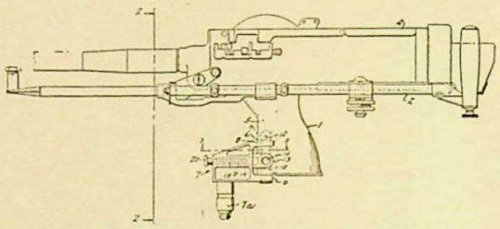
2,309,808

TWIN GUN MOUNT

John C. Trotter, Williamsville, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y., a corporation of New York

Application August 16, 1940, Serial No. 352,953

9 Claims. (Cl. 89—37)



1. In a device for minimizing the torque about the azimuth axis due to recoil, a support, a pair of cradles carried by the support, a machine gun mounted in each cradle, a pivot for the support, said pivot being adapted to swing to a desired position under each gun and spring actuated positive locking means to lock the pivot in the desired position.

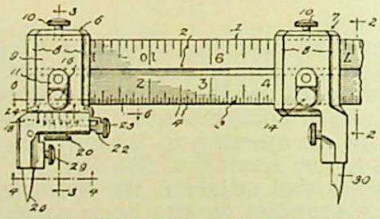
2,309,809

GEOMETRICAL INSTRUMENT

Howard Hollis Vane, Cincinnati, Ohio

Application May 26, 1941, Serial No. 395,289

2 Claims. (Cl. 33—158)



1. A geometrical instrument comprising a beam having V-shaped calibration grooves, a rider adjustable along the beam, a plunger slidable on the rider and comprising a pointed tip shaped to enter closely into each groove, a working-finger carried by the rider, and spring means engaged with the plunger and normally retracting the plunger, to house the tip within the rider.

2,309,810

METHOD OF AND APPARATUS FOR TREATING MATERIAL

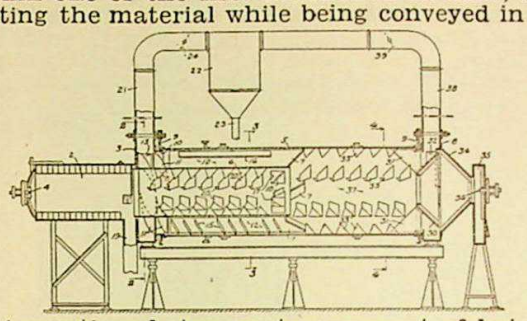
Lawrence B. West, Chattanooga, Tenn.

Application October 30, 1941, Serial No. 417,193

24 Claims. (Cl. 34—13)

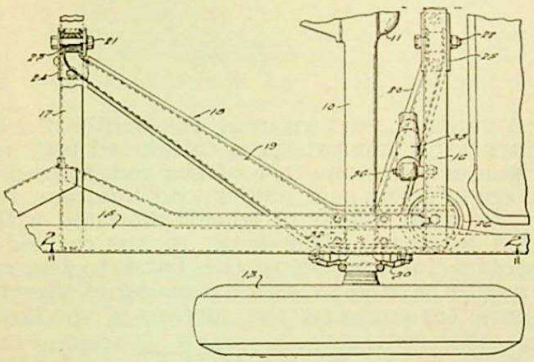
1. A method of treating material which comprises conveying the material in streams of opposite directional flow to an area where the ma-

terial of both streams mix and thereafter conveying the mixed material in a stream disposed within one of the first mentioned streams, subjecting the material while being conveyed in the



first mentioned streams to a current of hot gas, and subjecting the mixed material while being conveyed to a current of cooling air.

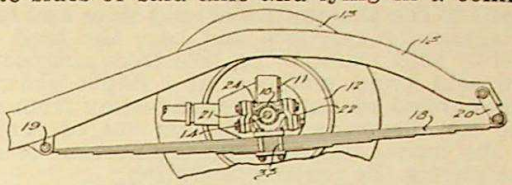
2,309,811
VEHICLE SUSPENSION
Chester C. Utz, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application October 30, 1940, Serial No. 363,529
3 Claims. (Cl. 280—124)



1. In a suspension for a vehicle having a frame and an axle, means at each side of said frame for mounting said axle on said frame for vertical swinging relative thereto comprising an arm pivoted at one end on said frame and extending beneath said axle; a spring carried by the other end of said arm and connected to said frame for controlling the swinging of said axle; a second arm fixed to said first arm at a point between said spring and said pivot and pivoted to said frame; a shackle connecting said axle and said arms at their point of connection, and a resilient bumper element carried by said axle on the under side thereof and adapted to be engaged by said second arm thereby to limit downward movement of said axle relatively to said frame.

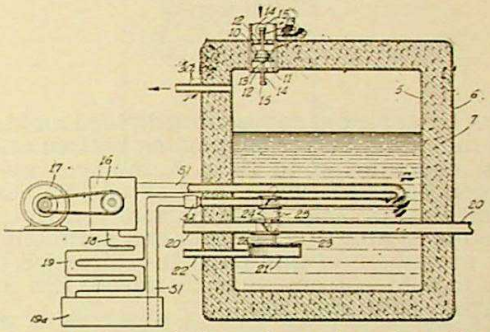
2,309,812
VEHICLE SUSPENSION
Chester C. Utz, Redford Station, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Michigan
Application April 16, 1942, Serial No. 439,193
3 Claims. (Cl. 267—52)

1. In a vehicle spring suspension, a frame; an axle; a pair of leaf springs respectively pivoted to the frame at one end thereof and shackled thereto at the other end thereof; means for connecting the central portions of said springs to said axle at points adjacent the ends thereof for accommodating limited lateral swinging of said axle relatively to said springs comprising a pair of links pivotally connected respectively to said axle and said springs; the axes of said pivotal connections being disposed on opposite sides of said axle and lying in a common



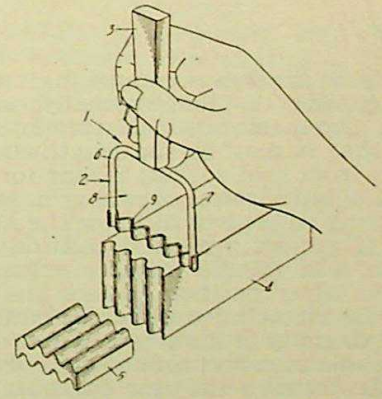
vertical plane disposed longitudinally of said frame.

2,309,813
FUEL TANK
Edmund W. Whiting, Chicago, Ill.
Application July 22, 1940, Serial No. 346,738
6 Claims. (Cl. 62—1)



1. In a device of the character described, a tank, heating and cooling apparatus within said tank, and means to control said apparatus operable in response to variations in degree of pressure within said tank with respect to pressure outside of the tank.

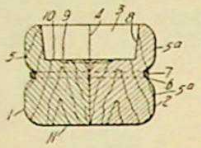
2,309,814
BUTTER CUTTER
Walter K. Youngberg, Middletown, Conn.
Application January 18, 1940, Serial No. 314,483
2 Claims. (Cl. 30—115)



1. A butter cutter for cutting butter chips for individual table use from a standard butter bar of like cross section including a rectangular frame having a rectangular opening therethrough of substantially the cross sectional dimensions of such a bar and into which the latter is adapted to enter during a vertical cutting operation, and also having side and top portions on said frame closely conforming to the sides and top of such a bar upon the completion of the cutting operation and said sides extending into adjacency to an underlying butter bar support, a narrow transversely disposed combined cutter and chip separating band member having a substantial height and a height constituting only a

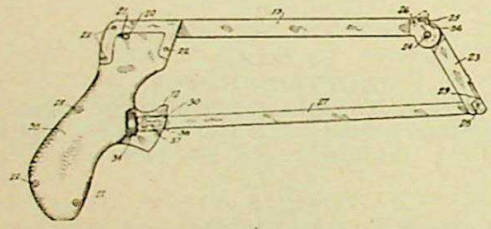
small fraction of the height of said rectangular opening and engageable throughout its length with said underlying support and connected at its ends to the extremities of said sides and movable vertically through said bar, the area enclosed by said frame being free from obstruction above said band member, and finger grasping means carried by and projecting away from said frame for disposing the fingers out of contact with the butter bar and the top portion of said frame during the cutting operation.

2,309,815
BUTTER FORMER
Walter K. Youngberg, Unionville, Conn.
Application August 27, 1940, Serial No. 354,411
6 Claims. (Cl. 31—42)



1. A butter mold comprising divided mold parts, each including butter supporting bottom and side walls, cooperating to form a molding aperture between said side walls, and extensible embracing means for said parts normally maintaining the same in abutting relation and permitting relative movement of said parts in a direction transverse to said bottom walls to release the formed pat from said aperture.

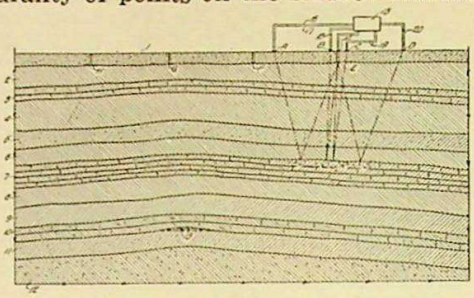
2,309,816
FOLDING POCKET HACK SAW
Gifford Allen, Grand Junction, Colo.
Application June 27, 1941, Serial No. 399,999
5 Claims. (Cl. 145—33)



1. A folding hacksaw comprising: a handle member having a longitudinally extending socket; an arm member slidably mounted in said socket so that it may be slid lengthwise into or withdrawn from said socket; means for limiting the extent of withdrawal of said arm, said latter means serving as a pivot to allow the arm to be turned to a pre-set projected position; a latch member in said handle member engaging said arm in the latter position to lock the same in place; a saw engaging member extending from the outer extremity of the arm to a position opposite the handle member; and means for securing a saw blade between the saw engaging member and the handle member.

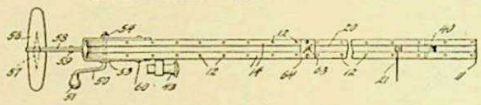
2,309,817
METHOD OF MAKING GEOPHYSICAL EXPLORATIONS
Lawrence F. Athy, Ponca City, Okla., and Elton V. McCollum, Houston, Tex., assignors to Continental Oil Company, Ponca City, Okla., a corporation of Delaware
Refiled for abandoned application Serial No. 156,834, August 2, 1937. This application November 12, 1940, Serial No. 365,150
7 Claims. (Cl. 181—0.5)

1. A method of profiling tectonic structure including the steps of generating seismic waves at a point near the earth's surface, recording the time of travel of reflected waves from the generating point to the subsurface strata and back to a plurality of points on the surface located at a



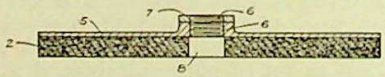
predetermined distance from the generating point, computing the velocity of travel vertically at the generating point of the reflected seismic waves from the recorded data at the plurality of receiving points.

2,309,818
GAUGE
Vester N. Attaway, Jackson, Tenn.
Application June 20, 1941, Serial No. 399,006
2 Claims. (Cl. 33—126.7)



1. A gauge for determining the depth of a liquid in a tank, comprising a calibrated rod, parallel guides along one face of the rod, an endless band confined by said guides and having a tangent extension, a pair of wheels mounted within the rod for moving the band, means carried by the guides for anchoring the band to the rod, and means carried by said extension of the endless band for engaging the surface of the liquid.

2,309,819
ART OF GRINDING AND POLISHING GLASS AND APPARATUS THEREFOR
Raymond C. Benner, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application April 18, 1941, Serial No. 389,137
19 Claims. (Cl. 51—195)

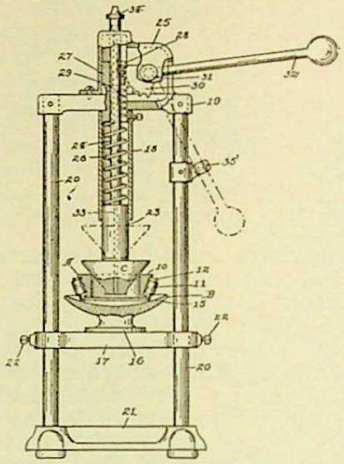


1. In an apparatus for finishing glass surfaces, a pad having pore spaces in the face thereof, the pores being separated by fibrous material with an elastomer bond and said pad being of a resilient nature, and loose granular abrasive material between the pad and the glass, the diameters of the individual granules being less than the widths of the pores.

2,309,820
BEARING PACKER
Hans S. Berg, Ventura, Calif.
Original application July 3, 1939, Serial No. 282,669. Divided and this application May 26, 1941, Serial No. 395,175
5 Claims. (Cl. 184—1)

1. A bearing assembly packer, comprising, a bowl having an inwardly sloping floor, an upwardly extending guide above the bowl, a support for said bowl and guide, a plunger reciprocable in said guide having a stem projecting

upwardly from the guide and a nozzle on its lower end adapted in its lowered position to engage and close the upper end of the inner member of a bearing assembly and hold the latter with its outer member tightly seated upon the floor of said bowl, resilient means cooperating with said guide and plunger for urging the plunger with its nozzle downwardly, said plunger including its nozzle and stem being passaged longitudinally for injecting lubricant under pres-



sure downwardly into the space within the bearing assembly, a rack and pinion connected with said plunger for reciprocating the latter to raise and lower said nozzle and permit the resilient means to assist in lowering and holding the nozzle in lowered position upon the bearing assembly and lever actuating means for revolving said pinion to raise or lower said plunger.

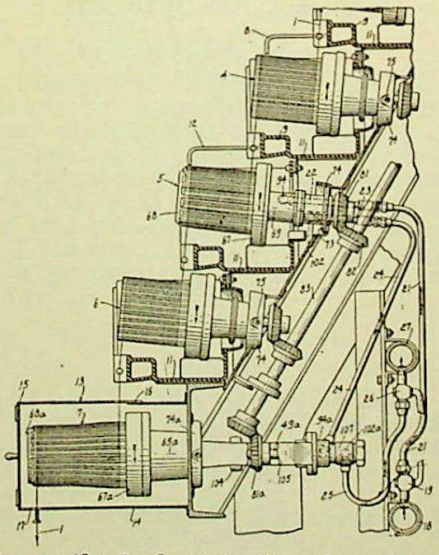
2,309,821

METHOD OF AND APPARATUS FOR MANUFACTURING THREAD OR THE LIKE

Richard F. Bergmann, Lakewood, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware

Application September 28, 1939, Serial No. 296,936

10 Claims. (Cl. 34—23)



4. The method of subjecting thread to the action of a temperature-changing fluid comprising the steps of impressing upon a substantially continuous thread the form of a plurality of successive traveling helices each of which is characterized by a plurality of closely spaced turns, subjecting one of said helices to the action of the temperature-changing fluid at a predetermined temperature whereby the temperature of said fluid is altered and thereafter subjecting another of the helices to the action of the temperature-changing fluid to the action of which the helix mentioned in the preceding step has previously been subjected.

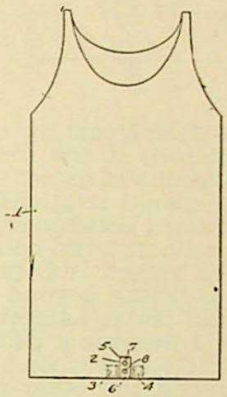
2,309,822

UNDERGARMENT

Harry Blau, New York, N. Y.

Application August 21, 1941, Serial No. 407,705

2 Claims. (Cl. 2—113)



1. In a garment of the type adapted to be fastened through the crotch, a strip on the outer surface of the front of the garment, a similar strip on the outer surface of the back of the garment, said strips positioned at the lower edges thereof and secured to the garment at their ends, the intermediate portions thereof being substantially free of the garment, fasteners carried on the outer face of the free intermediate portion of one of said strips, and cooperating fasteners on the portion of the garment covered by the other of said strips.

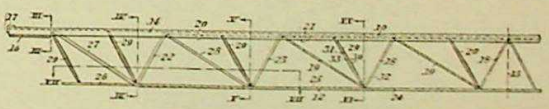
2,309,823

FABRICATED STEEL BEAM

Arthur M. Bowman, Pittsburgh, Pa., assignor to James I. Bowman, Pittsburgh, Pa.

Application December 19, 1940, Serial No. 370,779

10 Claims. (Cl. 189—37)



1. A fabricated beam for use in building construction as a floor joist, for example, comprising spaced top chord members extending substantially the full length of the beam, spaced bottom chord members extending substantially the full length of the beam, said members in a section of the beam being located at the corners of a rectangle, bracing cross frames spaced along the length of the beam, disposed in planes inclined to that normal to the length of the beam, and welded at their corners to said top and bottom chord members, and additional top and bottom chord members welded to said first mentioned top and bottom chord members, said additional top and bottom chord members being bent adjacent their ends and welded to the opposite (i. e., bottom or top) chord member, forming compression and tension web members.

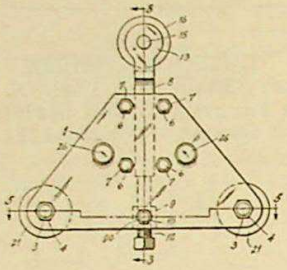
2,309,824

BUSHING ROLLING DEVICE

Clifford A. Brotherton, Columbus, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio

Application July 25, 1940, Serial No. 347,361

1 Claim. (Cl. 153—79)



A tool having a frame comprising an opposed pair of plates generally in the form of an isosceles triangle, a plurality of spacer elements holding said plates in spaced relationship, a pair of said elements extending between and perpendicular to said plates adjacent two corners and constituting axles for rollers, rollers mounted on said axles and extending beyond said corners, means between said plates adjacent the central portion thereof and forming a slideway, a slide-block sliding in said slideway and having a free end extending beyond the other corner of said frame, a roller rotatably mounted on said free end with its axis parallel to those of the other rollers, an element fixedly mounted between said plates having an internally threaded bore, a threaded bolt in said bore, said bolt being in alignment with said slide-block and having the inner end thereof abutting said slide-block with the outer end thereof extending beyond said frame, and means on the external face of one of said plates adapted to be engaged by an implement for the purpose of rotating said tool about an axis parallel to those of the rollers.

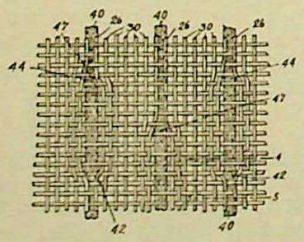
2,309,825

WEAVING

Roy E. Burdett, Lawrence, Mass., assignor to Pacific Mills, Lawrence, Mass., a corporation of Massachusetts

Application April 15, 1940, Serial No. 329,666

4 Claims. (Cl. 139—383)



1. A fabric having interwoven ground warp and filling threads and a decorative warp thread interwoven at intervals with filling threads and at other intervals overlying a group of filling threads, the ground warp threads adjacent the decorative thread lying beside the decorative thread where it is interwoven with filling threads and lying under and in approximate alignment with the decorative thread immediately where it leaves the weave at both ends of the interwoven part of the decorative thread, whereby the fabric is free from openness in the weave thereat.

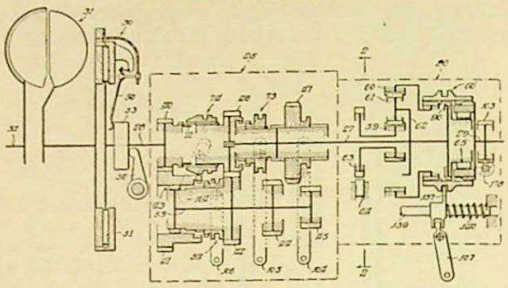
2,309,826

AUTOMATIC TRANSMISSION AND CONTROL SYSTEM THEREFOR

Harold E. Carnagua and William B. Osborne, Muncie, Ind., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application July 28, 1941, Serial No. 404,286

7 Claims. (Cl. 74—328)



1. A vehicle drive including a source of power, a transmission connected thereto and comprising input and output shafts, a plurality of gear trains connectible between the shafts to provide different speed ratios therebetween, a jaw clutch for establishing one of the gear trains, positively interengageable means for establishing another gear train, means for conditioning said gear trains for contemporaneous operation, and a blocker interposed between the elements of the jaw clutch for rendering the operation of the clutch subject to torque reversal, said positively interengageable means being chamfered in a direction to render the said positively interengageable means independent of torque reversal at such time and hence faster to operate than the clutch, whereby to enable the operator selectively to control the establishing of the gear trains by controlling the application of power to the transmission.

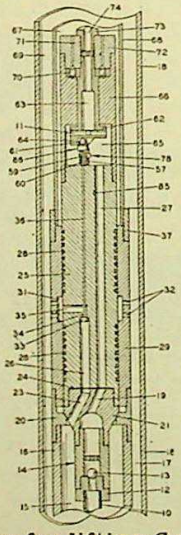
2,309,827

DEEP WELL PUMP

Wilbur J. Crites, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application January 2, 1942, Serial No. 425,447

4 Claims. (Cl. 103—244)



1. In apparatus for lifting fluid through a well bore having well casing therein, the combination comprising a rotatable inner tubing and a stationary outer tubing member lowered into the casing, a first annular space between the casing and the outer tubing member, a second annular space between the inner and outer tubing mem-

bers, a pumping mechanism connected to the lower end of the outer tubing member having an accumulation chamber communicating with the inner tubing which inner tubing is the discharge conduit to the surface of the ground for the liquid accumulated in the accumulation chamber, a source of high pressure gas communicating with the second annular space, surface means for rotating the inner tubing, a passage in the pumping mechanism connecting the accumulation chamber with the first annular space, a second passage in the pumping mechanism connecting the accumulation chamber with the second annular space and a third passage in the pumping mechanism connecting the second annular space with the interior of the inner tubing, the improvement which comprises separate valve means controlling each of the three passages, and means on the end of the inner tubing and rotatable therewith to alternately open the passageways.

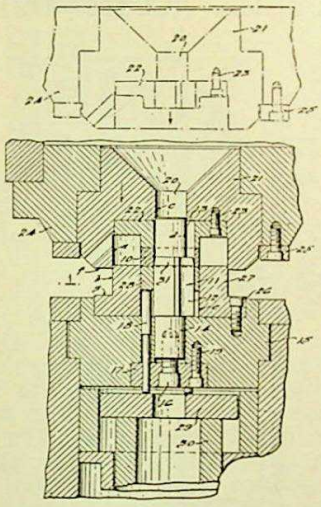
2,309,828

DIE SET

Walter E. Dalby, Detroit, Mich., assignor to Chrysler Corporation, Higland Park, Mich., a corporation of Delaware

Application April 14, 1941, Serial No. 388,363

3 Claims. (Cl. 78—60)



1. In a die set for sizing preformed articles, a reciprocable ram; a punch carried by said ram; a stationary die member; a formed plug; means for rigidly holding said plug and die member in spaced relationship, the space therebetween being adapted to receive a workpiece; and means carried by said ram for engaging said plug upon descent of the ram thereby to hold said plug and punch in rigid relationship during closing of the die set.

2,309,829

SULPHUR-CONTAINING ESTERS

Lloyd L. Davis, Bert H. Lincoln, and Gordon D. Byrkit, Ponca City, Okla., assignors to Continental Oil Company, Ponca City, Okla., a corporation of Delaware

No Drawing. Application September 27, 1940, Serial No. 358,697

4 Claims. (Cl. 260—456)

1. A method for the synthesis of sulphur-bearing derivatives of high molecular weight, including the steps of halogenating paraffinic hydrocarbons whose monochloro derivatives melt lower than the hydrocarbons themselves, separating relatively pure halogenated hydrocarbons from the crude halogenated mixture, hydrolyzing the pure halogenated hydrocarbon with an alkaline reagent and introducing a sulphur-bearing group by reacting the hydroxylated material with a material selected from the group consisting of thiophosphoryl chloride, thionyl chloride and sulphuryl chloride.

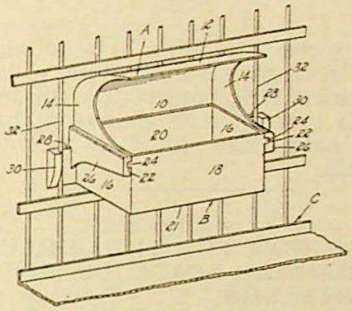
2,309,830

ATTACHMENT FOR BIRD CAGES

Denis A. Dearle, New Britain, Conn., assignor to North and Judd Manufacturing Company, New Britain, Conn., a corporation of Connecticut

Application August 24, 1940, Serial No. 353,994

1 Claim. (Cl. 119—18)



A bird cage attachment comprising a support, said support including a rear wall having its upper end curved forwardly to provide a hood, and side walls extending outwardly from the edges of said rear wall, a rectangular feed box having end walls positionable between the side walls of said support, the side walls of said support having rearwardly and downwardly sloped tapered grooves, and the end walls of said box having correspondingly sloped tapered runners receivable in said grooves for removably holding the box in said support, and means for attaching the support to a cage.

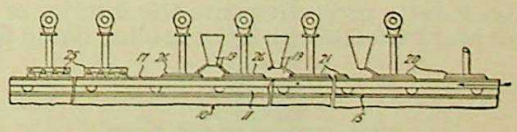
2,309,831

METHOD AND APPARATUS FOR SURFACING GLASS

Manson L. Devol, Wilkinsburg, Philip W. Crist, Pittsburgh, and Ethmer J. Hazen, Ford City, Pa., assignors to Pittsburgh Plate Glass Company, a corporation of Pennsylvania

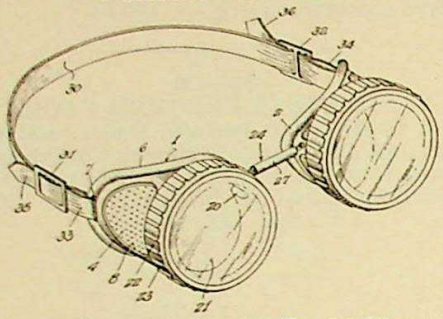
Application March 11, 1941, Serial No. 382,714

5 Claims. (Cl. 51—283)



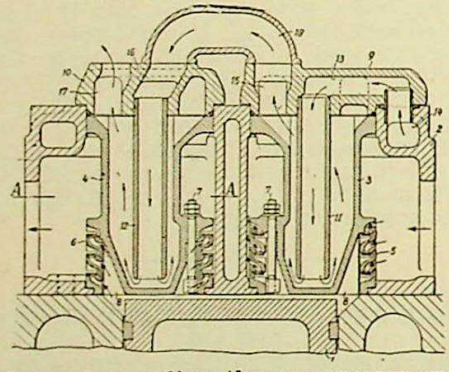
5. In a method of surfacing plate glass, the steps which comprise subjecting the glass in successive stages to frictional action of wet abrasive particles decreasing in size from approximately 30 mesh to 320-to-700 mesh in the successive stages and under grinding pressure of metal runners, subsequently subjecting said surface to frictional action of wet abrasive particles of approximately 30 mesh rubbed against the glass by a tool having a rubbing surface of pliable rubber composition, and then polishing the glass surface.

2,309,832
GOGGLES
Charles H. Dockson and Harold S. Davis, Detroit, Mich.
Application August 17, 1938, Serial No. 225,478
4 Claims. (Cl. 2—14)



1. In goggles, a shell, a baffle shield removably mounted in the shell and having a flange, a lens, and a locking ring connecting the lens with the shell, said locking ring engaging the flange for clamping said baffle shield in operative position in the shell.

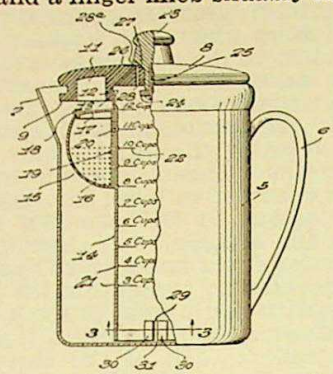
2,309,833
ARRANGEMENT FOR THE COOLING OF THE COMPRESSOR SPACE OF AIR AND GAS COMPRESSORS
Wilhelm Elze, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian
Application January 15, 1941, Serial No. 374,465
In Germany March 11, 1940
6 Claims. (Cl. 230—212)



1. Means for cooling the compressor space of air- and gas-compressors with suction valve and pressure valve arranged in the valve head, comprising a plurality of annular valves each arranged with a plurality of ports spaced one above the other, the free inner space within these valves being cooled by a liquid, and hollow valve carrier inserts projecting into the interior of said valves and through which the cooling liquid flows.

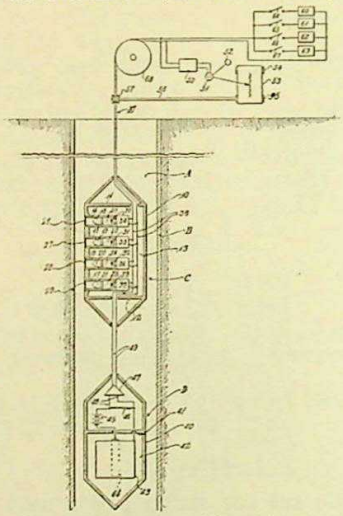
2,309,834
TEA OR COFFEE POT
Walter Englund, Mount Vernon, N. Y.
Application April 5, 1941, Serial No. 387,080
6 Claims. (Cl. 53—3)

1. A device of the class described comprising a liquid receiving vessel, a cover having a vent opening therein, a tubular member depending from the cover at said vent, said tubular member having its lower portion provided with an opening discharging into the vessel, the walls of said opening being bent laterally in opposite directions to form parallel inclined lips, a container for tea or coffee slidably mounted for vertical adjustment on the tubular member, means for holding the container in a set position of adjustment, and a finger knob slidably mounted for



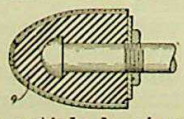
vertical movement within the cover for manually closing the vent opening.

2,309,835
WELL LOGGING APPARATUS AND METHOD THEREOF
Robert Earl Fearon, Tusla, Okla., assignor to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware
Application February 14, 1941, Serial No. 378,993
11 Claims. (Cl. 250—83.6)



1. A geophysical prospecting device that comprises a radiation detector, a well casing perforator, and an electrical circuit including both the detector and the perforator capable of simultaneously receiving signals from the former and operating the latter by means of electrical currents having different operating characteristics.

2,309,836
ABRASIVE ARTICLE
John P. Fenton, Boston, Mass., assignor to American Sandpaper Company, a corporation of Massachusetts
Application November 26, 1941, Serial No. 420,549
1 Claim. (Cl. 51—185)



In an abrasive article having an exterior portion of abrasive material fashioned to comprise an end piece with arms projecting from it and which arms are convexed in part and with a general tubular extension from the part of their

convexity, an interior portion to an abrasive article having an exterior portion formed as aforesaid, said interior portion comprising an end piece with arms projecting from it and which arms are convexed in part and with a general tubular extension from the part of their convexity, the end piece of the interior portion lining the end piece of the exterior portion and adhesively secured thereto, the convexed part of the arms of the interior portion lining the convexed part of the arms of the exterior portion and adhesively secured thereto, and the tubular extension to the arms of the interior portion lining the tubular extension to the arms of the exterior portion and adhesively secured thereto, the adjacent edges between the arms of said respective portions being offset with relation to each other, said tubular extension to the arms of the interior portion providing an internal sleeve against which an interior mandrel may be expanded for holding the abrasive article in place during its rotation.

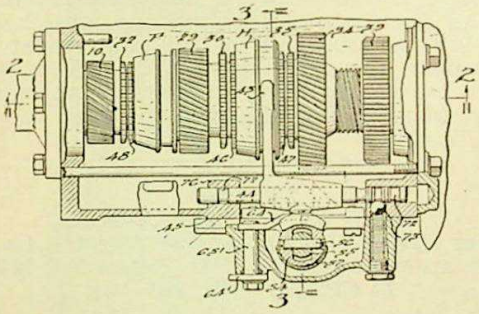
2,309,837

TRANSMISSION SHIFT MECHANISM

Otto E. Fishburn, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application October 11, 1940, Serial No. 360,733

4 Claims. (Cl. 74—475)



1. In a motor vehicle power transmission having a pair of selectively operable drive control elements, a pair of rails mounted for shifting movement relative to each other along parallel axes, means operably connecting said rails respectively with said drive control elements, a shaft mounted for oscillatory movement about an axis transverse to said parallel axes, a selector element carried by said shaft for swinging relative thereto about an axis transverse to the axis of oscillation thereof, a shift finger carried by said element for selectively engaging said rails in response to swinging of said element, means for swinging said element, means for oscillating said shaft, a lever carried by said shaft and over center spring means associated with said lever for assisting oscillation thereof.

2,309,838

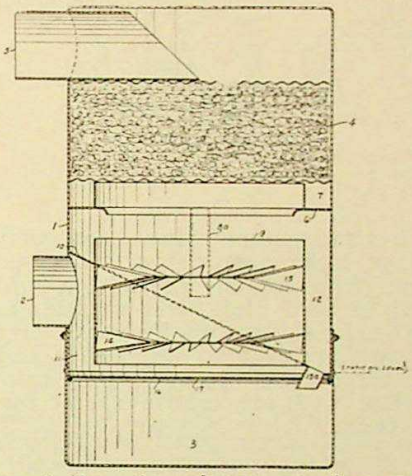
SELF-CLEANING AUTOMOTIVE AIR CLEANER

Howard M. Fitch and William K. Gregory, Louisville, Ky., assignors to American Air Filter Company, Inc., Louisville, Ky., a corporation of Delaware

Application November 25, 1940, Serial No. 367,018

5 Claims. (Cl. 183—8)

1. An improvement in automotive air cleaners of the self-cleaning type, having a lower reservoir and an upper filter medium, wherein incoming dust-laden air entrains reservoir liquid by impingement before passing to the medium, which operates to remove residue dust and liquid and to permit dust-laden liquid to drain gravitationally therefrom, comprising: means constraining the incoming air to flow downwardly into sufficiently close contact with the reservoir liquid to insure heavy liquid-entrainment and thence to flow upwardly away from said reservoir, said means including a sleeve vertically arranged with its lower end adjacent the reservoir to confine the incoming air as it flows from said reservoir in the form of an upwardly moving column and with its upper end spaced below the medium and disposed to discharge said column directly upward through the intermediate space between the sleeve and the medium into the medium; means providing a separating chamber extending around the upper end portion of the sleeve and having open communication with the outer



periphery of the air column passing upwardly through said intermediate space; stationery lower and upper vanes arranged within said sleeve for separately imparting to the dust laden air, passing upwardy through said sleeve, whirling motion of such intensity that the whirling air is operative not only to centrifuge liquid and dust against the inner wall of the sleeve to form a liquid film theron, but to move the film upwardly along the sleeve and then force it outwardly around the upper end of the sleeve into the separating chamber; and means for draining liquid from the separating chamber.

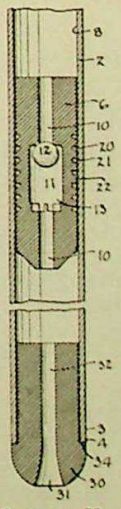
2,309,839

FLOAT COLLAR

John R. Gardner, Houston, Tex.

Application August 31, 1940, Serial No. 354,969

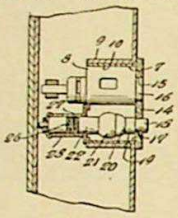
3 Claims. (Cl. 166—1)



1. A float collar for well pipe comprising a unitary body of rubber normally of greater di-

ameter than the inside of the pipe which is to carry said collar, means to confine said body to a diameter such that it is insertable in the pipe, said means being releasable after insertion so that the inherent resiliency of the rubber will effect a frictional grip on the inside of the pipe to retain the body therein, said releasable means being corrodible.

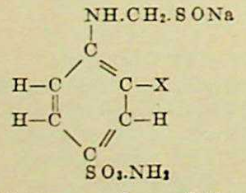
2,309,840
ILLUMINATED DOOR LOCK
Clarence F. Garvert and Paul B. Knepper, Topeka, Kans.
Application April 22, 1941, Serial No. 389,804
4 Claims. (Cl. 240—2.13)



1. A keyhole illuminating attachment for vehicle door locks comprising a transparent escutcheon plate for the keyhole, a push button mounted in said plate and a lamp having its bulbous end disposed in the path of the push button and engaged by the inner end of said push button for movement thereby into contacting position with an electric circuit for energizing the lamp.

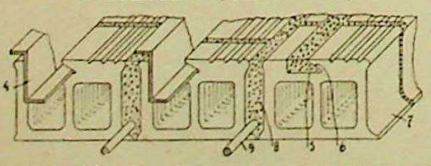
2,309,841
PROCESS FOR THE PREPARATION OF NEW SOLUBLE AROMATIC AMIDO COMPOUNDS OF THERAPEUTIC VALUE
Paul Emile Charles Goissedet and Robert Ludovic Despois, Choisy-Le-Roi, France; vested in the Alien Property Custodian
No Drawing. Application December 30, 1936, Serial No. 118,258. In Great Britain January 3, 1936
4 Claims. (Cl. 260—397.7)

4. A compound of the formula:



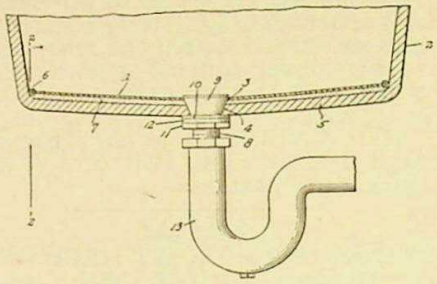
in which X is a member of the group consisting of hydrogen, chlorine, and methoxy group.

2,309,842
STONE CEILING
Engelbert Gräwer, Leipzig, Germany, assignor to Ignacio Araneta, Lima, Peru
Application February 7, 1939, Serial No. 255,061
In Germany April 20, 1937
3 Claims. (Cl. 72—66)



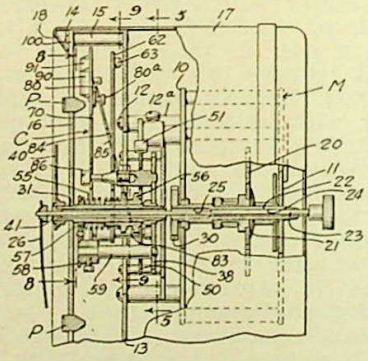
3. The method of producing stone ceilings which comprises suspending the stones by their tops with their bottom faces extending freely in a common horizontal plane, inserting in the interstices between the stones mortar and reinforcing means and, after the mortar has set, severing the connection between the stones and the points from which they are suspended.

2,309,843
SINK OR TUB REPAIR BOTTOM
Saul Greenspan, Brooklyn, N. Y.
Application November 26, 1941, Serial No. 420,563
4 Claims. (Cl. 4—187)



1. A repair bottom of the character described comprising a plate engageable in the lower portion of a sink or tub and conforming to the shape thereof, a gasket mounted on and enclosing the edges of the plate for sealing the joint between said plate and the sink or tub, said gasket being of circular cross-section and having a groove therein for the reception of the marginal portions of said plate, and means for securing the plate in position.

2,309,844
TIME REMINDER CLOCK
Peter Henrik Henrikson, Los Angeles, Calif.
Application August 11, 1941, Serial No. 406,248
14 Claims. (Cl. 161—6)



1. In an annunciator of the class described, a dial having predetermining elements selectively adjustably to occupy active positions; an arbor having a hand co-acting with the dial; a latching disk having a peripheral surface defining a track for co-action with an alarm tripping member; means mounting said disk on said arbor for rotation therewith and movement axially thereon to occupy a latching position wherein said member rides upon the periphery of the disk, or a releasing position wherein said member is free of the periphery; means rotatable with said arbor and co-actable with said predetermining elements when occupying their active positions, and with said disk to move the latter to releasing positions; and means for restoring said disk to latching position following a releasing operation.

2,309,845

PROCESS FOR THE RECOVERY OF NITRIC OXIDE AND HYDROCARBONS FROM GASEOUS MIXTURES

Edward B. Hodge, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application April 8, 1940, Serial No. 328,527

4 Claims. (Cl. 23—161)

1. In a process for recovering nitric oxide from gaseous reaction products of the vapor phase nitration of an alkane, said gaseous reaction products containing unreacted alkane, alkenes, carbon monoxide, and nitric oxide, which comprises providing in said gaseous mixture sufficient of said alkane to prevent the formation of a flammable mixture on admixture of oxygen to oxidize said nitric oxide; incorporating an excess of oxygen in said mixture over that necessary to oxidize said nitric oxide, but insufficient to form a flammable mixture, effecting reaction between said oxygen and said nitric oxide, recovering nitrogen dioxide from the resulting gas mixture, and maintaining said alkane and alkenes in the gaseous phase throughout said oxidation and recovery steps.

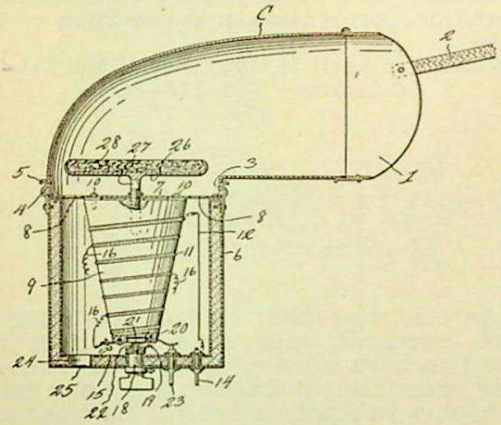
2,309,846

INHALER

Einar Marius Holm, Detroit, Mich.

Application March 6, 1941, Serial No. 382,082

1 Claim. (Cl. 128—192)



An inhaler comprising a casing having one end open, a plate disposed over the open end portion of the casing, means for securing the plate in position, said plate having openings, a member within the casing and carried by and depending from the plate, said member being of a material non-conductive of electricity, a resistance coil carried by and encircling the member, contact plugs carried by a wall of the casing, one of said plugs being in electrical connection with the inner extremity of the resistance coil, contact members carried by the inner end of the first member and arranged in an annular series, adjacent contact members being spaced apart, a contact arm secured to said inner end of the first member and in electrical engagement with the second contact plug, said arm extending inwardly across the inner end of the first member, a knob rotatably carried by the wall of the casing opposed to the inner end of the first member and substantially at the axial center of the annular series of contact members carried by the inner face of the first member, a contact arm carried by the knob for selective electrical connection with the annular series of contact members upon turning of the knob, the contact arm carried by the inner end of the first member being at all times in electrical contact with the contact arm carried by the knob, and a medicament holder carried by the plate and outwardly thereof.

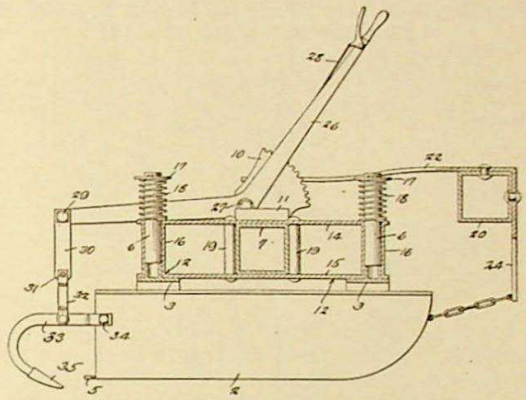
2,309,847

GO-DEVIL CULTIVATOR

Richard C. Holton, Lubbock, Tex., assignor of one-half to Elmo Wall, Lubbock, Tex.

Application May 1, 1940, Serial No. 332,825

1 Claim. (Cl. 97—143)



In an agricultural implement of the class described, a main beam, means for supporting the beam, carriers including upper and lower members between which the beam fits closely, securing elements connecting the upper and lower members to prevent movement of the carriers transversely of the beam, the carriers being slidable longitudinally of the beam, stops on the beam and limiting the sliding movement of the carriers longitudinally of the beam, sleds having vertical posts received slidably in the carriers and having their upper portions disposed above the upper members of the carriers, abutments on the posts, compression springs about the upper portions of the posts and interposed between the abutments and the upper members, soil-engaging elements assembled with the sleds for vertical movement, and means carried by the beam for raising and lowering the soil-engaging elements at the will of an operator.

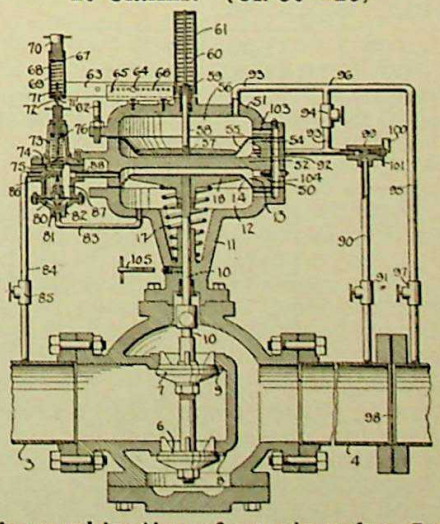
2,309,848

DIFFERENTIAL PRESSURE LOADED CONTROL VALVE

William R. King, Mineola, Tex.

Application June 5, 1937, Serial No. 146,558

10 Claims. (Cl. 50—16)



1. The combination of a main valve, fluid pressure means to operate said valve, a pilot loading valve for said means, and additional means

to control said pilot loading valve in accordance with the variation of the downstream pressure of said main valve, and loading means for said pilot valve operable as a function of the volume of fluid flow through the main valve.

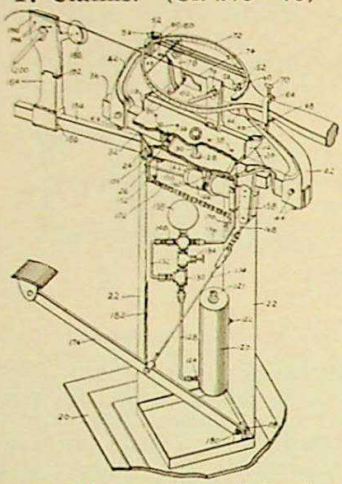
2,309,849

RACKET STRINGING DEVICE

Rudolph A. Kausal and Kenneth C. Kausal, St. Louis, Mo.

Application July 29, 1940, Serial No. 348,088

17 Claims. (Cl. 273—73)



1. A substantially self-contained, pneumatically operated pressure system for racket-stringing devices comprising a tank adapted to have compressed air stored in one portion thereof, an inlet to said tank, a cylinder, a piston positioned in and slidably engaging said cylinder, a conduit connecting the tank and the cylinder, a manually operated cutoff valve and a pressure operated cutoff valve in said conduit, a tube by-passing said cutoff valves, a check valve in communication with the by-passing tube which permits flow from the cylinder to the tank but prevents flow from the tank to the cylinder, a pressure gauge indicating the pressure in selected portions of the pressure system, hydraulic liquid in the cylinder, the tube, the conduit, the valves, and the lower portion of the tank, a member to move and to be moved by said piston, a foot pedal, flexible means connecting said movable member and the foot pedal, said movable member being connected to and being bodily movable with a string-pulling bar.

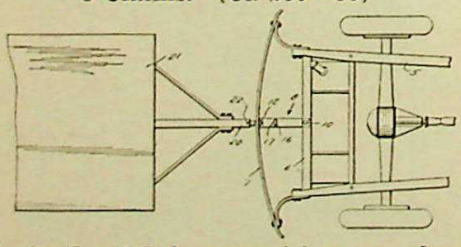
2,309,850

TRAILER HITCH

Branch F. Klawitter, Fairfax, Minn.

Application December 1, 1941, Serial No. 421,201

3 Claims. (Cl. 280—33)



1. A trailer hitch comprising an elongated member having one end attached to a vehicle frame, a vertical lug on the member adapted for positioning against a vehicle bumper and secured thereto, and a spring-retracted coupling member carried by the first-named member and movable into a position forwardly of the bumper when not in use.

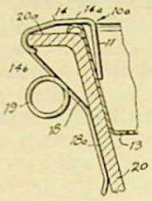
2,309,851

FASTENING DEVICE FOR SINK STRAINERS

Bernhard G. Kuhne, Detroit, Mich.; Addie N. Kuhne administratrix of said Bernhard G. Kuhne, deceased

Application July 19, 1940, Serial No. 346,379

3 Claims. (Cl. 24—261)



1. A device for clamping a sink strainer or like receptacle to a sink, comprising a length of spring-like wire formed with a central loop, the ends of the loop extending upwardly substantially in a plane thereof, said ends having portions extending outwardly of said plane of the loop in substantially spaced relation and being bent downwardly, at least one of said downwardly bent portions being extended downwardly beyond the bottom of the loop and inwardly of said plane thereof.

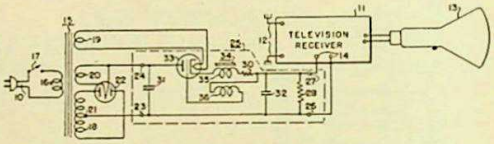
2,309,852

ELECTRICAL FILTER NETWORK

Harold M. Lewis, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware

Application April 24, 1940, Serial No. 331,406

6 Claims. (Cl. 178—44)



1. An electrical filter comprising, input and output terminals, said input terminals being adapted to have supplied thereto direct current having undesirable pulsations therein, a vacuum tube having an anode, a control electrode and a cathode, said anode and said cathode being included in a direct current path between said input and said output terminals, and a transformer having primary and secondary windings, said primary winding being included in said direct current path adjacent said cathode for developing in each of said windings from said undesirable current pulsations a pulsating control potential, said primary and secondary windings being connected in series with additive polarity between said cathode and said control electrode continuously to control the instantaneous impedance of said vacuum tube to oppose undesirable current pulsations between said output terminals.

2,309,853

RATE AND ATTITUDE INDICATING INSTRUMENT

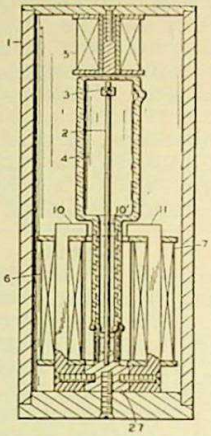
Joseph Lyman, Huntington, and Elwood Norden, Pelham, N. Y., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York

Application April 10, 1941, Serial No. 387,810

28 Claims. (Cl. 33—204)

1. In a rate of turn instrument, a support, a rod carried by said support, means for vibrating

said rod in a plane, and electrical pick-off means positioned adjacent said vibrating rod for pro-



ducing potentials responsive to movements of said rod departing from vibration in said plane.

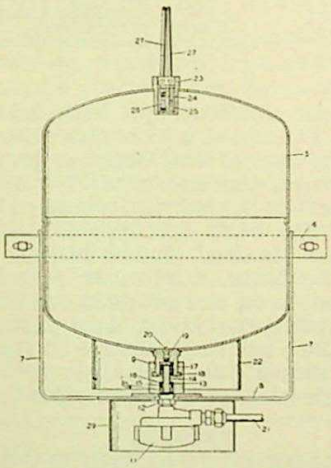
2,309,854

SYSTEM FOR STORAGE AND UTILIZATION OF FUEL GASES

Charles MacSporran, Detroit, Mich., assignor to Phillips Petroleum Company, a corporation of Delaware

Application April 21, 1941, Serial No. 389,642

7 Claims. (Cl. 62—1)



1. Equipment for storing and dispensing liquefied gas comprising a portable container having an opening in the bottom wall thereof, a connector secured in said opening, a dispensing passage in said connector, a valve for closing said dispensing passage, a tap plug in the top of said container, a valved pressure relief passage in said tap plug, a second passage in said tap plug, and means normally closing said second passage and responsive to abnormal temperatures to open the said second passage.

2,309,855

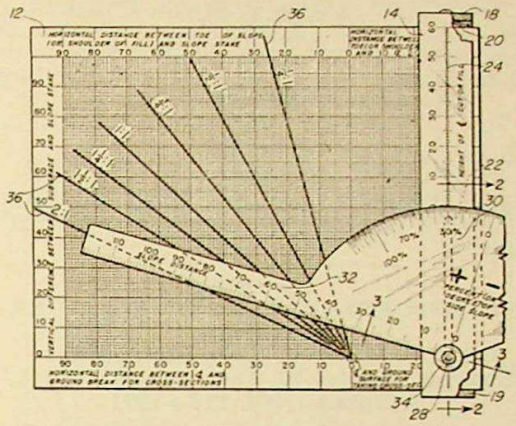
SLOPE REDUCING BOARD

Clarence J. Maddox, Seattle, Wash.

Application May 16, 1942, Serial No. 443,223

3 Claims. (Cl. 33—97)

1. A slope reducing board, comprising: a rectangular work board having a subdivided right rectangular chart thereon, the zero point of the x axis of said chart being located intermediate the ends of the x axis, a plurality of angle-of-slope-lines radiating across the chart to one side of said zero point, a pivot carrier on said board movable along the x axis of the chart to the side of said zero point away from said angle-of-the-slope-lines, a pivot on said carrier movable along the y axis of the chart, an arcuate protractor plate swingable upon said pivot and having its



curved edge scaled to indicate the set thereof relative an axis of the work board, and a scale arm on said plate having its scaled edge radial with the axis of the pivot and adapted by its length to intersect said angle-of-slope-lines.

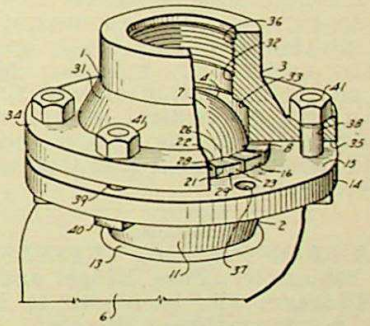
2,309,856

SAFETY DEVICE FOR PRESSURE VESSELS AND THE LIKE

Walden W. Mason, Kansas City, Mo.

Application March 11, 1940, Serial No. 323,304

9 Claims. (Cl. 220—89)



7. A safety device including, a diaphragm supporting member having a flow opening therethrough and provided with a groove encircling the opening, the inner side of said groove forming a substantially cylindrical seat and the outer side a downwardly and inwardly tapered face, a frangible diaphragm having a cylindrical rim portion sleeved over said seat, a contractable ring encircling said cylindrical rim portion and having a bevelled face engaging the tapered face of said groove, said ring having radial slots extending through said bevelled portion and having oppositely directed slots staggered with respect to the first named slots for enhancing contractability of the ring, and clamping means engaged with the supporting member and with said ring to draw the ring into said groove with the bevelled face thereof sliding on said tapered face to contract the ring into gripping engagement with said rim of the diaphragm and the rim into gripping engagement with said seat.

2,309,857

RECORDING SYSTEM

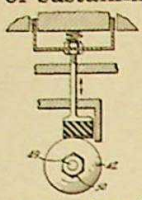
Livingston Middleditch, Beverly Hills, Calif.

Application July 5, 1938, Serial No. 217,548

5 Claims. (Cl. 274—11)

1. In apparatus for recording impulses on the surface of a moving record blank, a serrated

printing wheel adapted to print on said blank, the edge of the wheel being transverse to the travel of the blank, a platen for supporting the blank and capable of sustaining a printing pres-



sure and means for pressing the blank and the edge toward each other in accordance with the impulses.

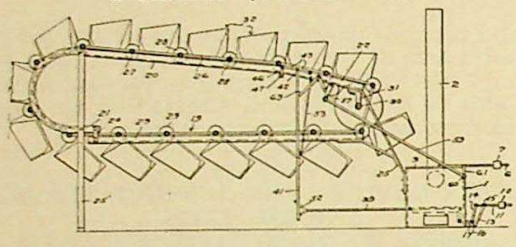
2,309,858

STOKER APPARATUS FOR BROODER HEATERS

Hugh E. Mitchell, Slate Spring, Miss.

Application October 25, 1941, Serial No. 416,560

2 Claims. (Cl. 110—101)



1. The combination with an open top heater, of a counterbalanced fuel supporting grate therein vertically movable under decrease in weight of a load therein in predetermined degree, means to feed fuel into the top of said heater operative intermittently under the influence of gravity, means to control operation of said fuel feeding means operative by vertical movement of said grate, a normally closed hinged top for said heater, and means to open said top operative by said fuel feeding means.

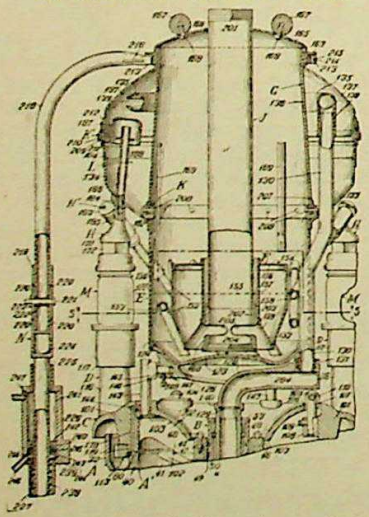
2,309,859

ART OF FILLING VESSELS

Albert B. Mojonnier, Park Ridge, and Malcolm Miller, Chicago, Ill., assignors to Mojonnier Bros. Co., a corporation of Illinois

Application December 29, 1939, Serial No. 311,542

27 Claims. (Cl. 226—116)



22. In apparatus of the class described, the combination of an annular vacuum chamber made up of separable parts, a series of filling heads arranged in a ring directly beneath said chamber when formed, each said head having vacuum and supply passages and ports, said vacuum passages opening into said chamber through its bottom, a series of extension tubes, one for each said vacuum passage, removably mounted in said chamber and each communicating with its associated vacuum passage, an inverted cup above the outer end of each of said extension tubes, said cups serving to separate air from any carried over substance, a slotted air collecting tube above said cups in said chamber, and connections through which air may be drawn from said chamber through the slots in said tube.

2,309,860

PROTECTION OF INSECTICIDES

Jean Motte, Corbas, and Jean Pomot, Lyon, France; vested in the Alien Property Custodian

No Drawing. Application July 19, 1939, Serial No. 285,266. In France July 22, 1938

2 Claims. (Cl. 167—24)

1. Insecticide preparations containing rotenone characterised by inclusion in the powdery insecticide of finely divided "red muds" obtained as a by-product in the manufacture of alumina.

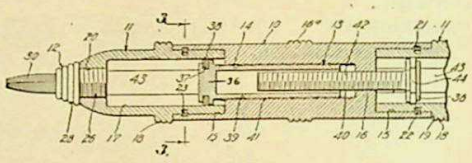
2,309,861

COSMETIC APPLICATOR

Charles A. Mureau, Los Angeles, Calif.

Application August 14, 1939, Serial No. 289,958

1 Claim. (Cl. 15—137)



In a cosmetic applicator, a body adapted to be employed as a handle, a container for cosmetics entered in an end of the body to extend therefrom, a brush on the container for applying the cosmetics received therefrom, means retaining the container in the body for rotation and holding the container against longitudinal movement relative to the body, a plunger operable in the container, a stem on the plunger having threaded cooperation with the body, and means holding the stem against turning relative to the container whereby turning of the container relative to the body causes ejection of the cosmetics to the brush.

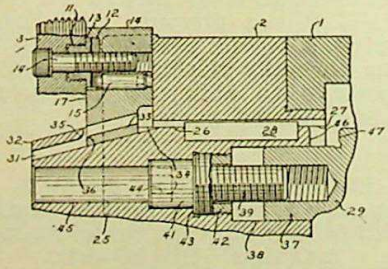
2,309,862

THREAD CUTTING MECHANISM

Frederic Nell, Waynesboro, Pa., assignor to Landis Machine Company, Waynesboro, Pa., a corporation of Pennsylvania

Application September 30, 1941, Serial No. 413,029

17 Claims. (Cl. 10—104)



11. In a thread-cutting device, a head having a plurality of substantially radial guideways provided therein; a cutter assembly mounted in each guideway and comprising a chaser and a chaser block rigidly secured together and disposed with the cutting edges of said chasers facing outwardly, for cutting internal threads, said blocks each having a portion projecting to the side opposite

to the application of cutting stresses to the cutting edges of said chasers, and walls on said head abutting said projecting portions of said blocks and so disposed that a perpendicular thereto lies substantially parallel to the major component of the cutting stresses and closely adjacent the effective point of application of said stresses to said chasers.

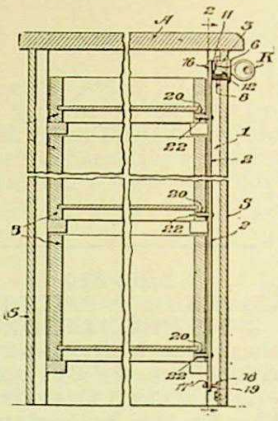
2,309,863

LATCHING DEVICE

Edwin W. North, Rockford, Ill., assignor to National Lock Co., Rockford, Ill., a corporation of Delaware

Application May 7, 1941, Serial No. 392,256

6 Claims. (Cl. 70—380)



1. A latching device, including a lock having a casing having an inner end cut away to provide a pair of spaced stops, a key actuated barrel rotatably mounted in the casing, a disc-like member rigidly secured to the inner end of the barrel and having a projection operable in said cutaway portion and engageable with said stops, a pin connected to the member and disposed eccentric to the axis of rotation of the barrel and having a slot to provide for the reception of the free end of the key shank, and latching means having an opening to receive the eccentric pin of the lock, said eccentric pin being engageable with the stops so as to support the latching means from the stops in respective latching and unlatching positions thereof.

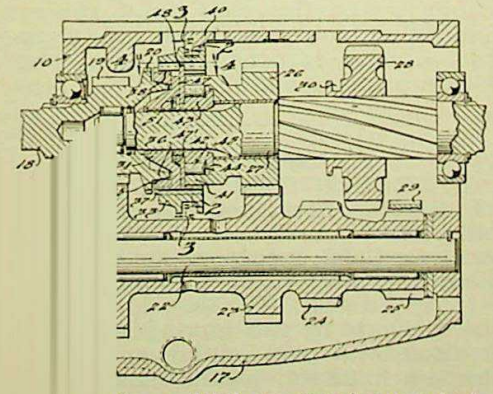
2,309,864

POWER TRANSMISSION

Herbert F. Patterson, Highland Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application May 16, 1940, Serial No. 335,434

6 Claims. (Cl. 74—370)



tor vehicle power transmission hav-
g shaft and a driven shaft, means
said driven shaft from said driving
ng a gear journalled on said driven shaft; means for drivingly connecting said gear to said shaft comprising an overrunning clutch having a driving element carried by said gear and a driven element carried by said shaft; a roller structure including a cage operatively disposed between said clutch elements; a shift member; and means interconnecting said member and cage for controlling the position of said cage in response to shift of said member.

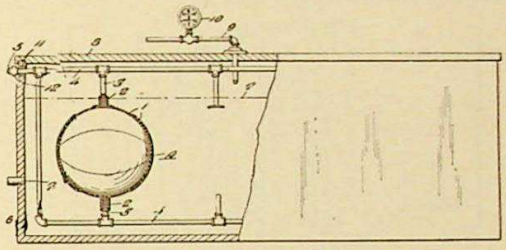
2,309,865

METHOD OF MOLDING ARTICLES

Milton B. Reach, Springfield, Mass.

Application September 13, 1941, Serial No. 410,745

3 Claims. (Cl. 154—16)



1. Steps in a method to adhesively apply covering material to an inflated athletic or game ball by surrounding said ball in a flexible envelope, evacuating the air content between the envelope and the surface of the ball, and applying fluid pressure within the ball itself to sustain it against collapse during the period of adhesively securing the cover to the body of the ball.

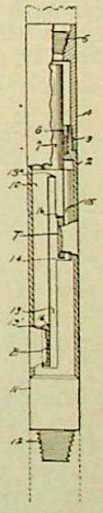
2,309,866

SAFETY JOINT BUMPER SUB

John E. Reed, Bakersfield, Calif.

Application August 5, 1941, Serial No. 405,506

1 Claim. (Cl. 255—27)



A bumper sub of the class described and comprising an exterior sleeve having a pair of longitudinally spaced, inwardly extending off-set, upper and lower lugs, and an inner mandrel slidable and turnable in the sleeve and having an elongate way for the lower of said lugs and having a passing-out slot extending from the way arranged so that both of said lugs may pass therethrough in sequential steps; the mandrel having an exterior, annular shoulder opposite to and arranged to coact with the end of said sleeve, the lower lug having an inclined surface which may be wedged with the inclined surface of a notch extending from said elongated way, the wedging being brought into effect by relative rotation of the sleeve and the mandrel, and the meeting of the end of the sleeve and the shoulder.

2,309,867

SUBSTITUTED DERIVATIVES OF SATURATED OR UNSATURATED PREGNANE-DIONES

Tadeus Reichstein, Basel, Switzerland, assignor to the firm Roche-Organon, Inc., Nutley, N. J.

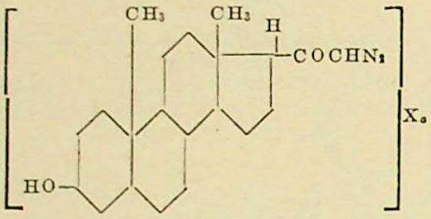
No Drawing. Application May 13, 1940, Serial No. 334,988

21 Claims. (Cl. 260—397.4)

1. The process which comprises converting to a keto group the 3-hydroxyl group in a compound having the empirical formula

$$|X_a C_{21}H_{32-c-2b}O_2N_2|$$

and the structural formula



in which X indicates substituents in the ring system selected from the group consisting of halogen, hydroxyl, alkoxyl, aralkoxyl, acyloxyl, and keto groups; *a* denotes a number from the group of zero and an integer; *b* is a number from the group of zero and an integer which denotes the number of double bonds in the ring system, and *c* denotes the number of hydrogen atoms substituted by mild oxidation in the presence of aluminum tertiary butylate.

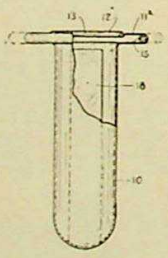
2,309,868

CATAMENIAL SAC

Isaac W. Robertson, Los Angeles, Calif.

Application January 10, 1939, Serial No. 250,181

3 Claims. (Cl. 128—285)



3. In an article of the character described the combination of a hollow open-ended sac of flexible, elastic material, said sac being provided with an annular enlarged portion adjacent said open end, and a separate retaining ring of relatively greater diameter than the wall of said enlarged portion whereby the ring is adapted to be removably retained within the enlargement by distending the wall thereof outwardly.

2,309,869

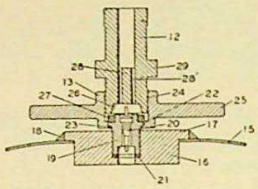
SELF-SERVICE SYSTEM FOR STORAGE AND UTILIZATION OF FUEL GASES

Kenneth W. Rugh, Detroit, Mich., assignor to Phillips Petroleum Company, a corporation of Delaware

Application November 1, 1939, Serial No. 302,455

2 Claims. (Cl. 221—73.5)

1. A valved tap plug in a liquefied fuel gas container, comprising a plug body having a bore formed therein for withdrawal of contents from said container, a valve normally closing said bore, a resilient gasket retained concentrically at the outer end of said bore, a tubular connector nipple in removable communicating relationship with said bore, a surface on said nipple adapted to seat tightly against said gasket and thereby form a seal, means within said nipple adapted to en-



gage and open said valve, threaded means to engage the nipple so as to first form said seal then open said valve and finally secure the nipple rigidly to the plug body, said threaded means being in rotatable and non-removable relationship with said plug body.

2,309,870

DERIVATIVES OF p-AMINOBENZENE-SULPHONAMIDE

Arnold Salomon, Oss, Netherlands; vested in the Alien Property Custodian

No Drawing. Application October 27, 1938, Serial No. 237,319. In the Netherlands October 29, 1937

7 Claims. (Cl. 260—397.7)

3. A substance of the group consisting of compounds having the formula

$$X(p\text{-}NH.C_6H_4.SO_2)_a NH(p\text{-}NH.C_6H_4.SO_2)_b X$$

and alkali metal salts thereof, wherein X represents a radical of the group consisting of hydrogen and acetyl and *a* and *b* are small whole numbers and the sum of *a* and *b* exceeds two.

2,309,871

TREATMENT OF HYDROCARBON FLUIDS

Walter A. Schulze and Graham H. Short, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application August 31, 1940, Serial No. 355,090

7 Claims. (Cl. 196—27)

1. The process for removing carbonyl sulfide from liquefied petroleum gases containing same which comprises passing said fluids subsequent to the removal of hydrogen sulfide over a reagent comprising a solid adsorbent material impregnated with a primary amine.

2,309,872

HYDRAULIC TRIP TOOL JAR

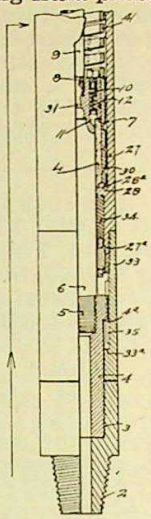
Donald U. Shaffer, Brea, and Edward C. Hamm, Norwalk, Calif., assignors to Shaffer Tool Works, Brea, Calif., a corporation of California

Application November 20, 1940, Serial No. 366,336

10 Claims. (Cl. 255—27)

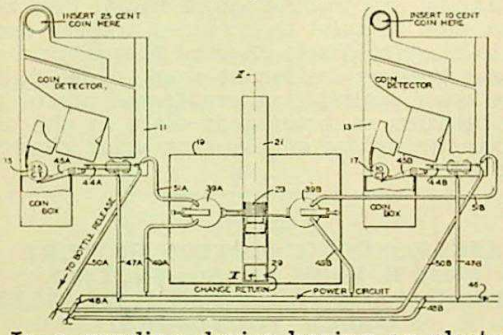
1. In a mechanism for jarring well tools; a hammer element, a part having an anvil to be struck by the hammer, means connective to a tool string to put the hammer under tension, trippable, yieldable means to lock the hammer and said part (to be struck) as one, a hydraulic chamber, a floating device in said chamber and

means yieldingly repressing said device, and a means for generating fluid pressure in said cham-



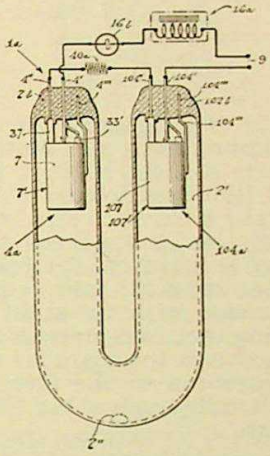
ber to move said device against said yieldable means.

2,309,873
CHANGE RETURN MECHANISM FOR VENDING MACHINES
Carlton E. Lay, Akron, Ohio
Application November 8, 1941, Serial No. 418,303
3 Claims. (Cl. 194—10)



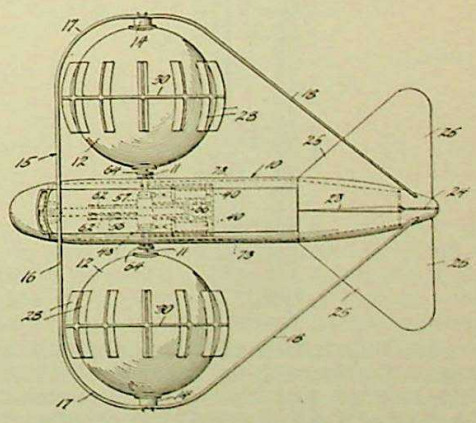
1. In a vending device having an electrically actuatable release, and a source of electric current; a pair of switches biased open and adapted for respective closure by insertions of coins of different denominations and of greater value than the vending charge, and wiring circuits each including a said switch connecting said release and said circuit source, and biased open by said switch; means for returning the respective amounts of change subsequent to coin insertion, including a vertically disposed tube adapted to hold a stacked column of superposed coins, a support for said coin column spaced below the lower end of said tube to permit displacement of a plurality of said coins, a pair of ejector units disposed on laterally opposite sides of said tube, each unit including an electro-magnet coupled to a said wiring circuit, and having its polar axis disposed in a plane substantially at right angles to the axis of said tube, and an armature hingedly mounted at its end remote from said tube, and normally biased open, each said armature having an extension terminating rearwardly of said coin tube and carrying an ejector extending forwardly into adjacency with said column of coins in said tube; one said ejector being of a thickness adapted to engage a selected plurality of said coins and the other said ejector being of a thickness to engage one said coin only, the bottoms of both said ejectors lying in adjacency to the level of the top of said support, whereby the first said ejector will engage the lowest said plurality of coins and the second said ejector will engage the lowest coin only of said coin column, and respectively on energization of their respective magnets eject the engaged coins.

2,309,874
ELECTRIC DISCHARGE SYSTEMS
Richard M. Somers, West Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application April 6, 1940, Serial No. 328,238
8 Claims. (Cl. 176—124)



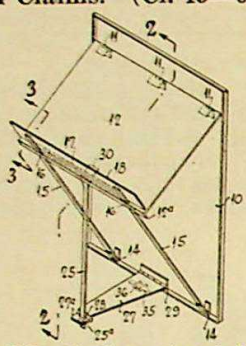
1. In combination in a gaseous discharge system: two main electrodes forming a main arc discharge path; two thermally emissive auxiliary electrodes respectively adjacent said main electrodes; and two heaters for said auxiliary electrodes respectively, said heaters being serially connected across said discharge path, and each of said auxiliary electrodes being connected to a point on the respective said heater.

2,309,875
AMPHIBIAN
Theodore F. Thompson, Des Moines, Iowa
Application July 14, 1941, Serial No. 402,338
11 Claims. (Cl. 115—19)



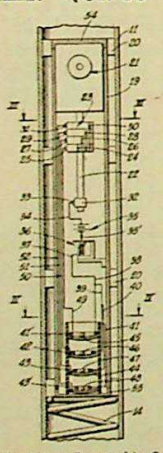
1. In a vehicle of the type described, in combination, a body, a pair of laterally disposed flotation and propelling pontoons, laterally disposed aligned shafts each rotatably mounting one of said pontoons, a pair of motors each connected to normally drive one of said pontoons, a differential, and means to drive both said pontoons from one of said motors through said differential.

2,309,876
COLLAPSIBLE MUSIC DISPLAY STAND
Gibbon H. Todd, Charlotte, N. C.
Application July 25, 1941, Serial No. 403,975
4 Claims. (Cl. 45—60)



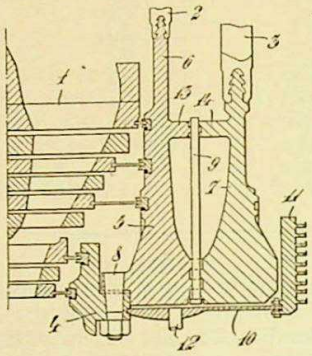
1. A collapsible display stand for music sheets and the like comprising a substantially vertical planular member, a sheet support pivotally secured at one of its edges to said member and a brace also pivotally secured to said vertical member in spaced relation to the sheet support pivot, a transverse bar secured on the brace for supporting the sheet support, said brace having a releasable connection with the sheet support for removably holding the sheet support in outstanding position relative to the planular member and a leg pivotally secured to the free end of said brace for additionally supporting the outstanding sheet support.

2,309,877
DEVICE FOR DETERMINING INCLINATION OF WELL BORES
David H. Weinstein, Houston, Tex., and Loyde H. Metzner, Long Beach, Calif., assignors to Cooperative Development Co., Los Angeles, Calif., a corporation of California
Original application January 8, 1938, Serial No. 184,012. Divided and this application November 4, 1941, Serial No. 417,782
7 Claims. (Cl. 33—205.5)



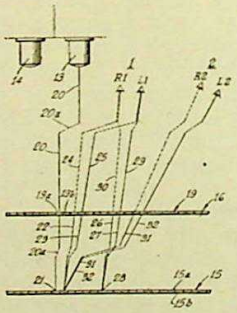
1. In a self-contained unit for determining the inclination of a bore hole from the vertical, a casing containing the following instrumentalities: a source of electrical energy; an electrically operated sound generating device; a plurality of members each movable upon inclination of said casing from the vertical a different number of angular increments to an abnormal position establishing a partial electrical circuit including said source; and a sequence means connected in series with said source and said sound generating device and connected into all of said partial circuits for simultaneously completing and interrupting each of said partial circuits through said sound generating device a number of times equal to the number of angular increments of inclination of said casing required to establish each of said circuits, whereby the number of angular increments included in a given inclination of said casing is manifested by the number of operations of said sound generating device.

2,309,878
ELASTIC FLUID TURBINE
Oscar Anton Wiberg, Finspong, Sweden
Application July 8, 1940, Serial No. 344,451
In Sweden August 31, 1939
10 Claims. (Cl. 253—16.5)



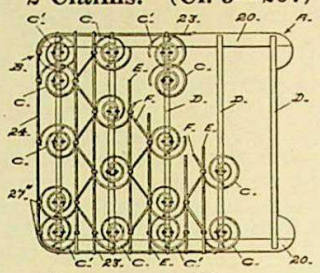
1. An elastic fluid turbine of the radial flow type having in combination, a radial flow blade system, sets of axial flow blades, axially spaced discs to carry said sets of axial flow blades, connections between adjacent ones of said discs at the inner periphery thereof, and means provided between said adjacent discs at the outer portions thereof for suppressing axial vibrations of the discs.

2,309,879
STEREOSCOPIC MOTION PICTURE
Floyd H. Willis, Los Angeles, Calif.
Application May 17, 1940, Serial No. 335,734
6 Claims. (Cl. 88—16.6)



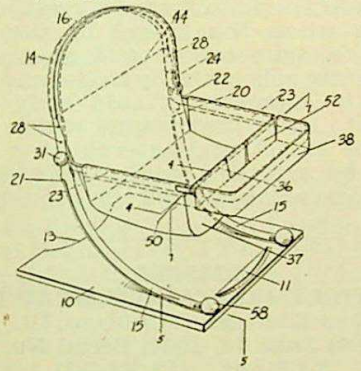
1. In a stereoscopic motion picture projection apparatus, the combination of a screen; a projector for alternately projecting on said screen a stereoscopically related pair of photographic images to be observed by an observer disposed before said screen; a filter interposed between said projector and said screen and between said observer and said screen, said filter comprising a plurality of light polarizing elements disposed in side by side abutting relation with the axis of polarization of each element extended at substantially right angles to the axis of each adjacent element, said filter being spaced from said screen a distance such that the angle from a point on said screen subtended by one of said elements approximates the angle from said point which is subtended by the eyes of said observer.

2,309,880
SPRING CONSTRUCTION
Robert Frank Winders and Arthur Laurenz Winders, South Gate, Calif.
Application June 9, 1941, Serial No. 397,274
2 Claims. (Cl. 5—267)



1. In a spring assembly, upper and lower frames, cross members on the lower frame, rows of coiled springs having their lower ends secured to said cross members, a plurality of straight resilient strips secured at their ends to and extending across the upper frame parallel to said rows of springs so as to contact opposite sides of the uppermost coils of said springs, zigzag strips extending between and secured at their ends to the straight strips and having their apices contacting the portions of the straight strips which contact said uppermost coils, and clips embracing said contacting portions of said strips and said coils for tying them together.

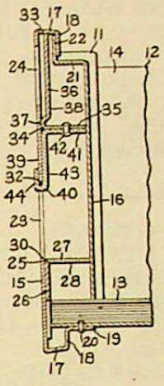
2,309,881
CHAIR
Ralph H. Wise, Detroit, Mich.
Application June 23, 1938, Serial No. 215,443
7 Claims. (Cl. 155—54)



1. A chair comprising a supporting base, a resilient frame consisting of a strip of metal of greater width than thickness bent into the form of an inverted U with the curved portion and adjacent straight portions of the U disposed vertically as a seat back and the remote ends of the U bent into sweeping singly curved resilient legs extending downwardly and forwardly from the vertical seat back to a horizontal base.

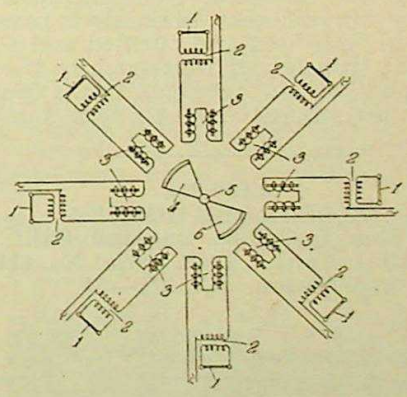
2,309,882
DRAWER PULL AND LABEL HOLDER
Palmer Bescherer, York, Pa., assignor to York Safe and Lock Company, York, Pa., a corporation of Delaware
Application December 9, 1940, Serial No. 369,215
3 Claims. (Cl. 45—7)

1. A drawer comprising a front wall having an outer member formed from sheet material and an inner member formed from sheet material and arranged in spaced relation to said outer member, a rectangular opening formed in said outer member, and an angular sheet metal member arranged within the space between said inner and said outer members, said angular member being substantially U-shape in form and having flanges disposed substantially at right angles to each other, one flange of said angular member abutting the inner face of said outer member and ex-



tending around three sides of said opening, and the other flange of said angular member extending across the space between the outer wall member and the inner wall member and having its inner edges abutting the face of said inner wall member.

2,309,883
METHOD AND MEANS FOR CONTROLLING ELECTRIC DISCHARGE TUBES
Auguste Harry Brackensey, London, England, assignor of one-half to The Franco-British Electrical Company Limited, London, England, a British company
Application July 6, 1940, Serial No. 344,206
In Great Britain July 18, 1939
7 Claims. (Cl. 176—124)

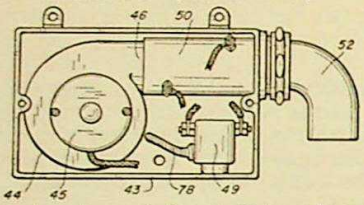


1. A method of producing a running shadow effect on a bank of electric discharge tubes, which consists in connecting the same on the high tension side of a power supply circuit in order to associate the same therewith, including a plurality of inductances in the low tension side of said power supply circuit by connecting a group of iron cored chokes to said low tension side and disposing said chokes in a circle about a common center, and influencing the magnetic circuit of each inductance in turn and thereby causing the electric discharge tube respectively associated therewith to have an increased reactance by rotating an armature upon said common center within the circle formed by said group of chokes and causing said armature to pass each inductance successively so as to influence the same in turn.

2,309,884
PROCESSING OF FOODS
Harry Bresnick, New York, N. Y.
No Drawing. Application May 2, 1940, Serial No. 333,032
7 Claims. (Cl. 99—15)

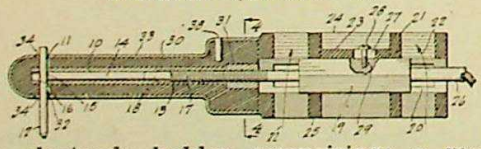
1. The method of processing a solid, fatty alimentary product containing a phosphatide constituent and subjected to a roasting operation which normally decomposes the phosphatide constituent with consequent deleterious results, which comprises extracting the phosphatide constituent prior to the roasting operation, and roasting the alimentary product to attain the desired state.

2,309,885
AIR TREATMENT DEVICE
James W. Carman, Seattle, Wash.
Application July 30, 1941, Serial No. 404,705
1 Claim. (Cl. 4—213)



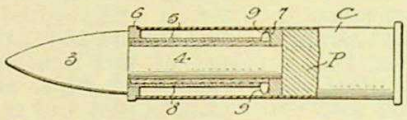
In an air treatment for toilets wherein an air nozzle is positioned adjacent the seat and bowl for gathering air therefrom and fan means is employed to induce suction upon said nozzle and to convey away such air as is picked up to a remote point for disposal, an air purifier mechanism, comprising: an exhaust conduit from said fan, electrical elements disposed in said conduit in the path of a portion of the air being exhausted through the conduit, a reticulated member across said conduit on the exhaust side of said electrical elements and spaced therefrom, means for energizing said electrical elements upon operation of the fan, whereby when air is passed over them it will be heated and purified and a portion of the heat transferred therefrom to the reticulated element which thereupon treats the majority of the air passing through said conduit.

2,309,886
ELECTRODE HOLDER
Wilbur F. Collins, Oakland, Calif.
Application April 8, 1942, Serial No. 438,197
1 Claim. (Cl. 219—8)



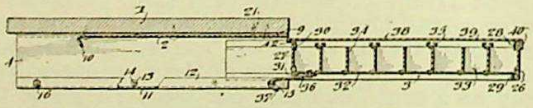
An electrode holder comprising; a metallic sleeve internally threaded at one end and having a transverse passage at the other end; an insulating sleeve cover extending throughout the length of said metallic sleeve and enclosing the other end thereof and having an abutting face at the one end and at the other end having a transverse passage of larger area than the transverse passage in said metallic sleeve and in axial registry therewith; a metal sleeve covering said insulating cover and extending throughout the length thereof and having a transverse passage of larger area than the transverse passage through said insulating cover and in axial registry therewith; a handle of insulating material having an abutting face at one end and having a hexagonal axial passage and radial webs with the intervening spaces between the webs opening into said axial passage; a hexagonal conductive member slidable in said hexagonal passage and having a threaded radial passage in one side thereof, a cable terminal at one end, and a threaded plunger member at the other end for threaded cooperation with the internally threaded end of said first-mentioned metallic sleeve; a wedge block fitting between said radial webs and having a longitudinal slot and a screw passing through said slot and engaging said threaded radial passage in said hexagonal conductive member; said hexagonal member being adjustable axially in said handle to compensate for various diameters of electrodes to coincidently clamp the electrode and abut the abutting faces of said handle and said insulating cover.

2,309,887
LEAKPROOF FUEL TANK PROJECTILE
Alfred Joseph De Camp, Molina, Colo.
Application February 15, 1941, Serial No. 379,123
6 Claims. (Cl. 102—47)



1. A device of the class described comprising a projectile body to form an opening through a tank wall, a central shank rigidly secured to the rear end of said body and projecting rearwardly therefrom, a sleeve open at both ends and surrounding said shank, said sleeve having a normally tight separable connection with said shank to permit said shank to forwardly withdraw from said sleeve when the travel of the latter is arrested, the diameter of said sleeve from its front extremity substantially to its rear end being less than the diameter of said body to permit said sleeve to enter the opening which said body forms in the target, and external stop means on said sleeve for arresting said travel of said sleeve when this sleeve has entered the opening.

2,309,888
ARTICLE CONTAINER DRAWER
Leo Edelmann, Chicago, Ill.
Application June 18, 1940, Serial No. 341,187
2 Claims. (Cl. 45—7)



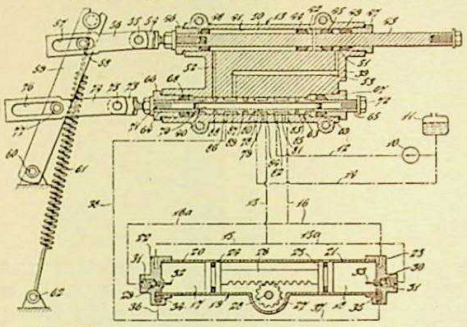
1. An article container drawer comprising with guideway structure, a drawer slidably mounted in said guideway structure and having extension slide portions whereby the drawer can be pulled out to entirely expose the article container portion, a cover for said drawer having downturned side flanges cut out adjacent their rear ends to fit over the upper edge of the side portions of the drawer, and pivot means connected through the end portions of the side flanges and the sides of the drawer whereby said cover is swingably mounted upon the drawer to close over the container portion thereof and the rear edge of the cover is presented as an extension projecting beyond the pivot axis to engage with the back of the container portion of the drawer and hold the cover in upright position when opened.

2,309,889

LIQUID PRESSURE REMOTE CONTROL SYSTEM, MORE PARTICULARLY FOR OPERATING SOOT BLOWERS OF BOILERS AND THE LIKE

Frederick Sydney Eves, London, England, assignor to Automotive Products Company Limited, London, England

Application December 7, 1940, Serial No. 369,104
In Great Britain February 16, 1940
8 Claims. (Cl. 121—157)



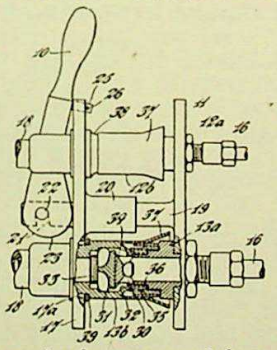
8. A liquid pressure remote control system comprising, a double acting piston and cylinder unit, a reversing valve controlling the working space of the unit to which liquid is supplied, a double acting auxiliary hydraulic motor for actuating said reversing valve, trip valves controlling the flow of liquid to said auxiliary motor, cam means driven by the movable portion of the piston and cylinder unit, and means driven by said cam for actuating said trip valves, said cam being provided with grooves for the reception of a portion of the cam operated means, said grooves being arranged in a circuit, the line of development of said cam being a function of the time of actuation of said trip valves, whereby the amplitude of the stroke of the piston and cylinder unit may be automatically varied under the control of a cam driven thereby.

2,309,890

COUPLING DEVICE FOR PIPES

Reginald John Fisher, London, England, assignor to Avery Equipment Limited, London, England

Application February 28, 1940, Serial No. 321,322
In Great Britain March 16, 1939
12 Claims. (Cl. 284—18)



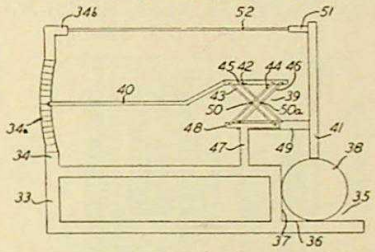
4. A coupling device comprising a plurality of valved pipe couplings, a pair of support members, each carrying one element of each of said couplings, positive means for drawing the support members non-resiliently toward one another, said means being arranged to act simultaneously upon the support members at a plurality of positions which are spaced apart in two dimensions so as to maintain the support memoers in mutually parallel planes during the whole of said drawing together movement, and an axially slidable valve member in each of said coupling elements, the valve members of each pair of elements being arranged to butt together so as to exclude substantially all air and at the same time produce a fluid-tight joint between the coupling elements during the first part of the movement of the support members toward one another, the remainder of said movement serving to open the valves and produce passageways through the couplings.

2,309,891

COMPARATOR GAUGE

James C. Fisk, Flint, Mich.

Application August 3, 1940, Serial No. 350,377
6 Claims. (Cl. 33—148)



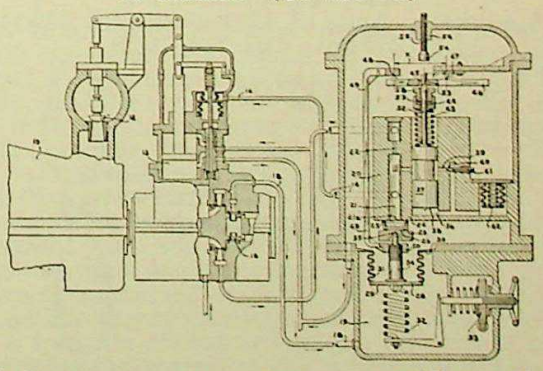
1. In a gauge for testing the surface variations of a work piece; means to support a work piece in proper relation to the gauge; a dial supported on said means; a substantially axially movable contact rod engaging said work piece and mounted on said means to support a work piece; two pairs of crossed reed hinges each of whose axes are laterally displaced; means connecting one end of said pairs of crossed reed hinges and mounting a pointer cooperating with said dial; means on said means to support a work piece for supporting the other end of one of said pairs of said hinges and means on said contact rod supporting the other end of said other pair of hinges, such that movement imparted to said rod will be transmitted to said pointer.

2,309,892

GOVERNING MECHANISM

Julius J. Gabalis, Prospect Park, and Frank A. Meyer, Sharon Hill, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

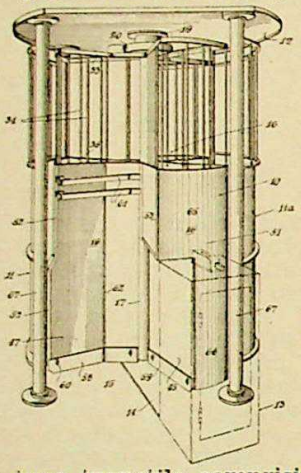
Application December 6, 1940, Serial No. 368,768
15 Claims. (Cl. 264—3)



4. In a prime mover, means providing a force dependent upon prime mover speed, a transformer having a space and including a pressure-controlling element responsive to said force to provide fluid under transformed pressure to control the admission of motive fluid to the prime mover, and a compensator for adjusting the prime mover speed change due to load change; said compensator comprising means providing a

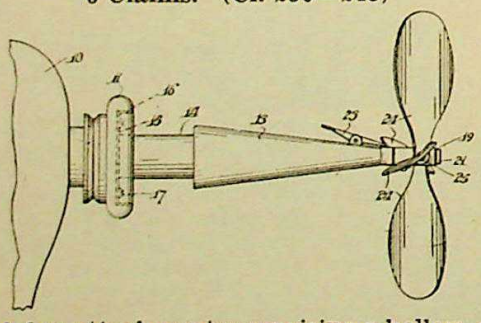
pressure chamber, a movable member having a pressure area exposed to pressure in said chamber, means providing for fluid pressure in said chamber which changes in a lagging manner with respect to changes in transformed fluid pressure, and mechanism for transmitting forces between the movable member and the controlling element of the transformer and including means providing for relative movement of the movable member.

2,309,893
TURNSTILE
Herbert A. Gersbach, Malverne Park, N. Y., assignor to Percy Manufacturing Company, Inc., New York, N. Y., a corporation of New York
Application March 30, 1940, Serial No. 326,915
5 Claims. (Cl. 39—3)



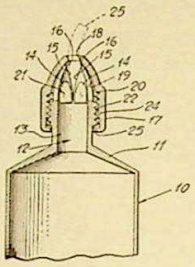
1. A high type turnstile comprising a central support, a plurality of box-like radial wings, the lower part of the face of each wing to the rear of the normal position of a patron being set back in a circumferential direction from the upper part to increase the patron space in the lower part, and the upper part of the face of each wing in front of said normal position of a patron having a rearwardly projecting means to decrease correspondingly the patron space in the upper part.

2,309,894
FAN ATTACHMENT FOR SEWING MACHINES
Arnold Gold, New York, N. Y., and Samuel Spielman, Philadelphia, Pa.
Application April 18, 1941, Serial No. 389,140
6 Claims. (Cl. 230—248)



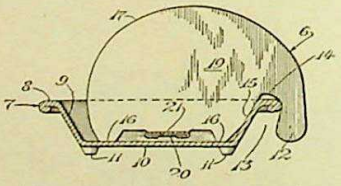
1. A fan attachment comprising a hollow, conical body, a hollow reduced neck projecting from the inner end of said body, means on said neck by which the attachment can be removably mounted on the hand-fly wheel of a sewing machine, a barrel projecting through the body and extending into the neck and fixed in place, a bar slidably mounted in the barrel with one end protruding from the outer end of said barrel, means to hold said bar in various longitudinal adjustments, and fan blades on the protruding end of said bar.

2,309,895
CLOSURE FOR COLLAPSIBLE TUBES
Rose M. Griffith, Chicago, Ill.
Application July 3, 1939, Serial No. 282,621
1 Claim. (Cl. 221—60)



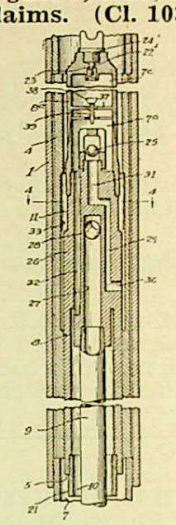
In a closure for a container of the character described, the combination of: a hollow head projecting from the container, said head comprising a single wall forming an annular neck and a plurality of leaves of essentially triangular form projecting from said neck toward the projected axis of the said neck so that the points thereof may be brought together so as to meet substantially on said axis, said leaves having curved external faces and having flexibility so that they may be swung together and apart; and a cap axially movable on said head, said cap having an axial discharge opening and an inner wall which converges to said opening, said inner wall being positioned to engage curved external faces of said leaves whereby to force the same together when said cap is moved to its closing position, so as to cause said points of said leaves to meet in a position to close said discharge opening, said leaves having wall portions which are straight in directions transverse to said axis so that the forward ends of said leaves say be readily flexed toward and away from said axis.

2,309,896
PARTITION DEVICE
Bertha Gustafson, Edmore, Mich., and Sara Geipe, Chicago, Ill.
Application July 25, 1941, Serial No. 404,065
2 Claims. (Cl. 220—22)



1. An article of the character described comprising, a substantially U shaped structure having open end portions, and made up of two side elements, one side element provided with a tongue portion the other side element provided with a slide portion adapted to secure slidably and adjustably the said tongue portion, the said tongue and slide elements positioned at the bottom edges of the said side elements and substantially at right angles thereto; the said element further provided with tray locating means comprising, tooth portions emanating from one of the side edges of the said side elements, and resilient tab means in juxtaposed relationship with respect to said tooth portions cooperating with said tooth portions in engaging slidably, tensionally and removably one edge of a tray.

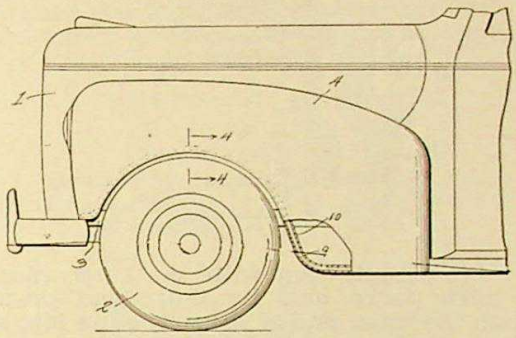
2,309,897
PUMP
Jesse E. Hall, Los Angeles, Calif., assignor, by direct and mesne assignments, to Pacific Pump Works, Huntington Park, Calif., a corporation of California
Application August 5, 1939, Serial No. 288,629
6 Claims. (Cl. 103—46)



1. In an oil well pump, a well string, a pair of liners longitudinally spaced in the well string and having bores of different diameter, a sleeve closed at its upper end and adapted for sealed sliding fit in the liner of larger diameter, a tube depending from the sleeve, the upper end of the tube being open to the bore of the well string above the sleeve, the lower end of the tube being adapted for sealed sliding fit in the liner of smaller diameter, a pump barrel suspended from the liner of smaller diameter and communicating at its lower end with a production zone of the well, a pump plunger suspended from the tube and adapted for sealed sliding fit in the pump barrel, the pump plunger having a bore communicating with the tube, a check valve in the bore of the pump plunger adapted to open responsive to pressure exerted upwardly via the bore of the pump plunger, a compression chamber for elastic fluid in the bore of the sleeve, said chamber having an extension thereof radially defined between the tube and the liner of larger diameter, the compression chamber being closed at its end by the liner of smaller diameter and the closed upper end of the sleeve, and a control at the earth's surface for alternately supplying production fluid to and discharging production fluid from the well string for alternately exerting and relieving pressure on a column of production fluid in the well string, whereby pressure of said column of fluid is exerted against the upper surface of the closed upper end of the sleeve for downwardly shifting the sleeve and its depending tube and the pump plunger so as to contract the compression chamber and compress elastic fluid therein, and upon relief of pressure of said column of fluid the compressed elastic fluid exerts pressure against the under surface of the closed upper end of the sleeve for upwardly shifting the sleeve and its depending tube and the pump plunger so as to expand the compression chamber.

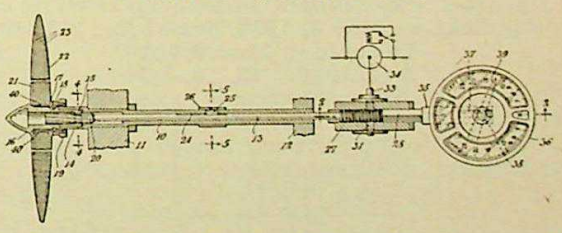
2,309,898
REINFORCED VEHICLE FENDER
Ernest F. Hansen, Meridian, Tex.
Application January 28, 1941, Serial No. 376,378
1 Claim. (Cl. 280—152)

A tear-resisting motor vehicle fender, comprising a fender body having forward and rear substantially horizontal edge portions and a side edge portion, a reinforcing bar frame having an outer side shaped to conform to the side edge portion of the fender body, said outer side of the frame merging into two straight leg portions, said leg portions and said outer side of the frame being disposed at the inner side of the corresponding edges of the fender body, the said edges of the fender body being turned inwardly over and secured to the adjacent portions of the frame, said leg portions of the frame being horizontally disposed and



being in the plane of the adjacent portion of the chassis frame of the vehicle on which the fender is mounted, each of said leg portions terminating at its free end in a right angularly extending short attaching portion adapted to position against the outer side of the said chassis frame and each of said attaching portions terminating in a flat eye through which an attaching bolt, screw or the like may be passed into the adjacent chassis frame for rigidly securing the said reinforcing bar frame to the chassis frame.

2,309,899
ADJUSTABLE PITCH PROPELLER
Adolf Hepperle, North Bergen, N. J.
Application February 17, 1941, Serial No. 379,236
5 Claims. (Cl. 170—161)

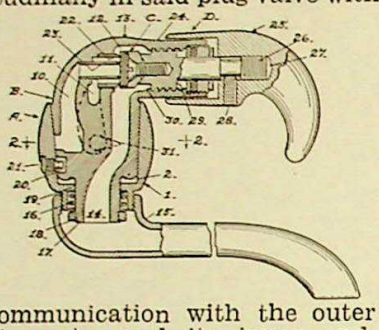


1. In an adjustable pitch propeller, a propeller blade composed of a plurality of articulated, relatively flat and closely adjacent individual laminae which are interconnected with and are adapted to be individually movable in either clockwise or anti-clockwise directions in respect to each other in parallel planes perpendicular to the axis of rotation, each lamina having an individual hub structure, the hub structures of all laminae being aligned and adjustably connected with one another, and means connecting said hub structures and adapted to facilitate their movement about the axis of rotation in respect to each other in a twisting or spiral fashion for effecting an adjusting movement of the laminae in the manner stated.

2,309,900
FAUCET VALVE
William A. Herring and Rex D. Barnett, South Gate, Calif.
Application October 7, 1941, Serial No. 413,992
3 Claims. (Cl. 277—10)

1. In a faucet valve, a valve body having a bore

extending therethrough and provided with separate ports, a discharge nozzle connected with said body, a rotary plug valve seated in said bore with its inner end projecting therefrom into said nozzle and its outer end projecting first upwardly and then angularly outward from said bore and body, said plug valve having separate substantially parallel inlet ports extending longitudinally thereof with their inner ends opening laterally thereon for registration with the ports in said valve body, there being a discharge port extending longitudinally in said plug valve with its outer



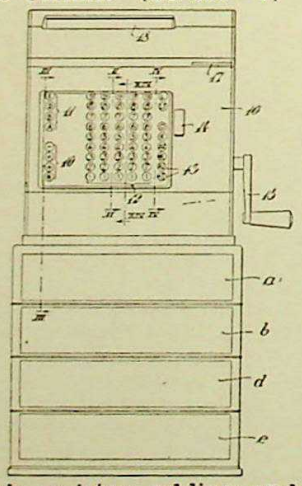
end in communication with the outer ends of said inlet ports, and its inner end opening through the inner end of the plug valve into said nozzle, a discharge valve at the juncture of said inlet and discharge ports for controlling communication therebetween, a handle mounted on and movable with the outer end of the plug valve to operate the plug valve, also movable relative to the plug valve for actuating the discharge valve, and means responsive to said relative movement of said handle for opening and closing said discharge valve.

2,309,901

CASH REGISTER, ADDING AND ACCOUNTING MACHINE, AND THE LIKE

Hans Fredrik Birger Högfors, Enskede, near Stockholm, Sweden, assignor to Svenska Kassaregisteraktiebolaget, Stockholm, Sweden, a joint-stock company of Sweden

Application May 3, 1937, Serial No. 140,520
In Sweden May 7, 1936
3 Claims. (Cl. 235—7)



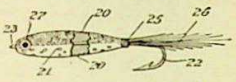
1. In a cash register, adding and accounting machine and the like, in combination, an actuator, a carriage, a totalizer on said carriage, a kind-of-operation mechanism for determining the operation to be performed, a movable add plate in said mechanism, means driven by said actuator for moving said add plate, a displaceable plate on said add plate, and a pin connected with said totalizer carriage and located in the path of motion of said add plate, said displaceable plate being normally in an effective position and movable with the add plate to engage the pin and being displaceable to an ineffective position so that it no longer engages the pin on movement of the add plate for engaging said totalizer with said actuator.

2,309,902

FISH LURE

James W. Harvey, Lakeville, Conn., assignor of one-half to Robert S. Allyn, New York, N. Y., and one-half to Starr Allyn Harvey, Lakeville, Conn.

Application September 2, 1941, Serial No. 409,189
17 Claims. (Cl. 43—42)



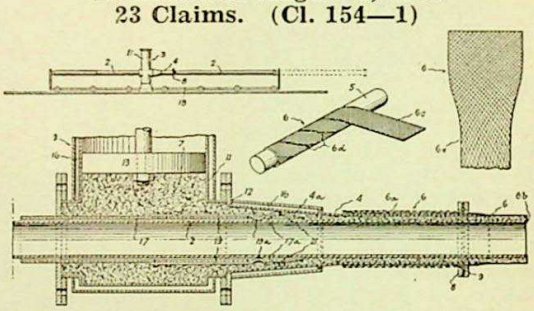
1. A lure comprising a shank, a wire loop connected to the shank and filled and coated with a lacquer, at least a part of which is transparent, the loop constituting the margin of the body of the lure.

2,309,903

COATING AND MANUFACTURE OF PIPES

Walter Reginald Hume, Melbourne, Victoria, Australia, assignor to Hume Pipe Company (Australia) Limited, Melbourne, Victoria, Australia

Application July 14, 1939, Serial No. 284,545
In Australia August 2, 1938
23 Claims. (Cl. 154—1)

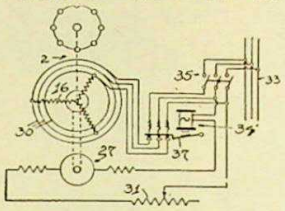


1. In apparatus for the coating and manufacture of pipes with and from plastic materials, a sleeve formed of flexible foraminous material adapted to be secured at one end to one end of a pipe or mandrel and to extend lengthwise thereof in order to provide, in association with such pipe or mandrel, an annular moulding space for the reception of plastic material, said sleeve being capable of being placed in tension in order to effect compression of the plastic material against a surface of a pipe or mandrel, the warp and weft strands of the material composing said sleeve extending substantially diagonally or helically in relation to the length of the sleeve.

3. A method for coating and manufacturing pipes and the like from cementitious, bituminous or other suitable plastic materials; which comprises attaching a flexible sleeve of extensible foraminous material to one end of a pipe or a mandrel, arranging the sleeve to extend loosely around said pipe or mandrel so as to provide in association therewith an annular space, introducing the plastic material into said annular space and causing the material to travel towards that end of the pipe or mandrel to which the sleeve is attached, moving the pipe or mandrel in the same direction as the feed of the plastic material and restraining free movement of the flexible sleeve so that it is progressively placed under tension from its attached end by and during movement of the pipe or mandrel thereby pro-

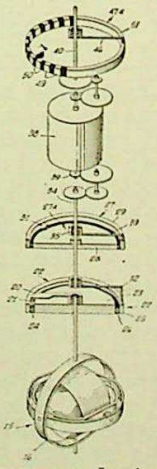
gressively reducing the diameter of said sleeve, whereby an annular body of the plastic material is progressively built up in a lengthwise direction within said annular space and is compressed between said sleeve and the adjacent surface of said pipe or mandrel.

2,309,904
ELECTRIC MOTOR
William P. Hunsdorf, Cleveland, Ohio
Application April 2, 1940, Serial No. 327,435
2 Claims. (Cl. 172—274)



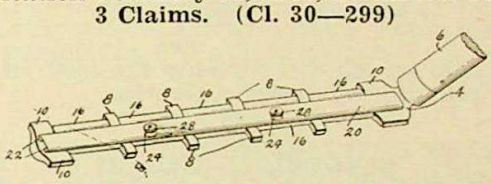
1. The combination of an alternating current source of electric energy and an electric motor having a revolving field member and a revolving armature member with a second, speed controlled electric motor mechanically coupled with one of the members of said first motor to effect speed controlled rotation of said one member, the fields of said two motors being arranged parallel to each other and only one of said fields being directly coupled with said source of electric energy so that said second motor rotates said one rotary member in a direction opposite to the direction of rotation of the other rotary member, and electrically controlled automatic switching means arranged in series with the field of the second electric motor for cutting off the current supply to said first electric motor until its driven rotary member is rotated by said second motor at a speed approximately equal to the rotary speed for which said first motor has been designed.

2,309,905
DEVICE FOR SURVEYING WELL BORES
Emmett M. Irwin and Bruce H. Rule, Pasadena, and George E. Lewis, Alhambra, Calif., assignors to Cooperative Development Co., Los Angeles, Calif., a corporation of California
Continuation of application Serial No. 253,124, January 27, 1939. This application April 29, 1941, Serial No. 390,938
10 Claims. (Cl. 33—205.5)



1. In an oil well survey device, an instrument housing insertable in a well bore with its axis aligned with the axis of said bore, said housing containing the following instrumentalities; orientation means for determining the angular orientation of said housing with respect to the direction of inclination of said well bore, compass means for determining the angular orientation of said housing with respect to a predetermined compass direction, and transmitting means for simultaneously transmitting to the ground surface a pair of comparable signals, one for each of the determinations of said orientation means and said compass means; and translating means at the ground surface including means for receiving said signals, and means actuated by said signals for visibly indicating said signals in a comparable relation to each other whereby said signals may be visually compared to determine the direction of inclination of said well bore with respect to said predetermined compass direction.

2,309,906
LAWN TRIMMER
Howard W. Kelsey, Bayside, N. Y.
Application February 11, 1941, Serial No. 378,333
3 Claims. (Cl. 30—299)



1. A lawn trimmer comprising in combination an elongated head, spaced guards integral with the head along the side of the head and projecting outwardly from the side of the head, cutters disposed along one face of the head, said cutters projecting beyond the side of the head with their cutting edges lying in the space between adjacent guards, and a clamping plate for clamping the cutters to the head.

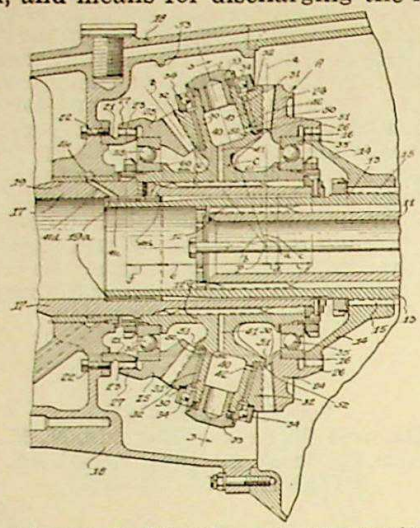
2,309,907
METHOD OF TREATING FURS
Paul Kestenbaum, Brooklyn, N. Y.
No Drawing. Application November 22, 1941, Serial No. 420,134
10 Claims. (Cl. 149—28)

1. The method of treating the hair of furskins which comprises applying to the hairs a glyceride of a fatty acid and a solution of formaldehyde, and thereafter applying heat to the hairs for forming a water-insoluble product on said hairs.

2,309,908
REDUCTION DRIVE MECHANISM
James W. Kinnucan, Detroit, Mich., assignor, by mesne assignments, to Continental Aviation and Engineering Corporation, a corporation of Virginia
Original application September 1, 1939, Serial No. 293,098. Divided and this application February 8, 1940, Serial No. 317,908
8 Claims. (Cl. 184—6)

1. A lubrication system for a gear reduction drive including driving and driven members, gear reduction mechanism including a pair of ring gears, a fixed support, one of said ring gears secured to the fixed support and the other drivingly connected to the driving member, a carrier drivingly connected with the driven member and provided with a plurality of spindles, an idler gear and a bearing therefor rotatably mounting same on each of said spindles, each of said spindles having an annular trough located substantially concentric with and adjacent to the inner end face of said idler gears, and comprising means for feeding a lubricant to the spindle to lubri-

cate the idler gear bearing and to said annular trough, and means for discharging the lubricant



from said trough directly onto the teeth of said idler gear during engine operation.

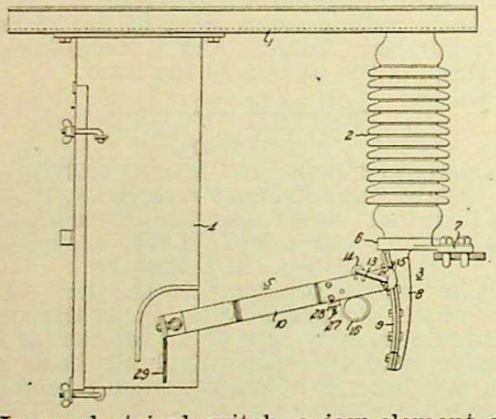
2,309,909

ELECTRICAL SWITCH

Carl G. Koppitz and Samuel H. Kast, Greensburg, Pa., assignors to Railway and Industrial Engineering Company, Greensburg, Pa., a corporation of Delaware

Application June 3, 1942, Serial No. 445,598

9 Claims. (Cl. 200—48)



1. In an electrical switch, a jaw element comprising a contact having parallel sides, and a blade assembly pivoted for movement into and out of engagement with said jaw element; said blade assembly comprising a pair of straps having contact blocks at the opposed inner faces of the outer ends thereof, spring means urging said outer ends of the straps towards each other to establish a substantial pressure of said contact blocks upon said contact, a hook ring pivotally supported by said blade straps, toggle members for forcing said contact blocks apart to relieve the pressure thereof on said contact, and a link coupling said toggle members to said hook ring to spread said toggle members when a switch-opening pull is exerted upon said hook ring.

2,309,910

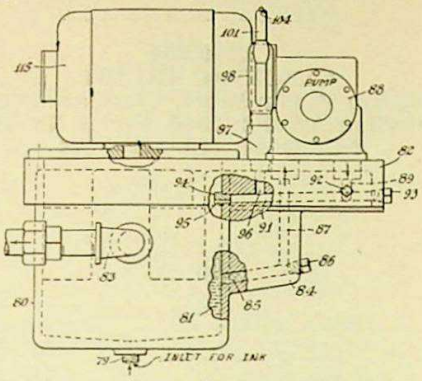
VISCOSIMETER

Hermann Kott, East Orange, N. J., assignor to Speedry Gravure Corporation, New York, N. Y., a corporation of New York

Application July 15, 1941, Serial No. 402,472

5 Claims. (Cl. 265—11)

1. A viscosity measuring device comprising means forming a mercury column, a chambered member formed with a sump, a pump mounted on the chambered member, a first self-draining duct in the member connecting the pump with the sump, a second self-draining duct between the pump and the sump, said second duct having



a restriction therein, means to mount the mercury column on the chambered member, a third self-draining duct in the mounting means and forming a communication between the second duct and the mercury column, and removable closures on the said member for gaining access to the said ducts.

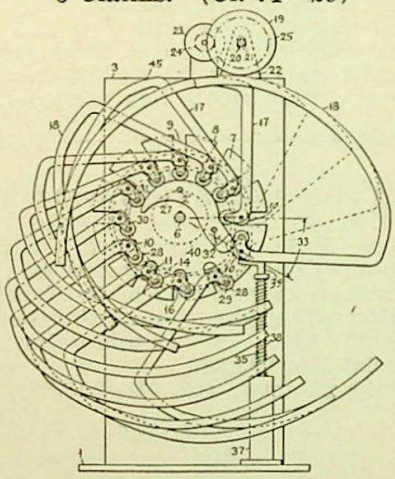
2,309,911

POWER TRANSMISSION MECHANISM

Vladimir S. Larionoff-Romanovsky, Philadelphia, Pa.

Application February 6, 1942, Serial No. 429,728

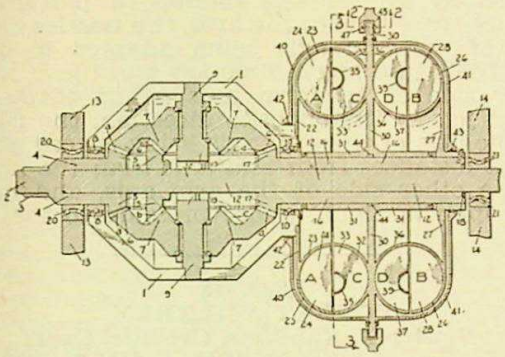
6 Claims. (Cl. 74—29)



1. A power transmission mechanism comprising a base, brackets on the base, a shaft journaled in the brackets at an elevation above the base, a hub on the shaft having a plurality of slots extending in a substantially radial direction and spaced at equal distances apart, rollers movably positioned in the slots, a pair of arms for every roller rigidly joined together, shafts passing through the inner ends of the arms rotatively supporting the rollers, curved sectors extending from the outer ends of the arms, a roller resting on the sectors, means to guide the roller in a vertical direction, means to rotate the roller, thereby causing rotation of the successive pairs of sectors with the arms on their shafts, the successive points of the sectors having progressively greater radii, means on the brackets to guide the shaft in a vertical direction on a vertical line with the axis of the roller when the corresponding sector is engaged by the roller, means on the brackets to control the rotation of the arm under

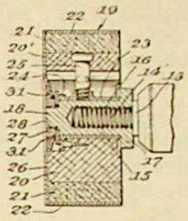
the roller so as to maintain the upper roller at a substantially constant elevation while the arm roller is being lowered, means to turn the arms with the sectors into the operative position under the roller, the number of the arms and sectors being such as to cause continuous rotation of the hub, and means to transmit power from the moving parts of the mechanism.

2,309,912
PROGRESSIVE SPEED RATIO TRANSMISSION
Francisco F. Lázaga, Vibora, Habana, Cuba
Application February 11, 1942, Serial No. 430,372
2 Claims. (Cl. 74—189.5)



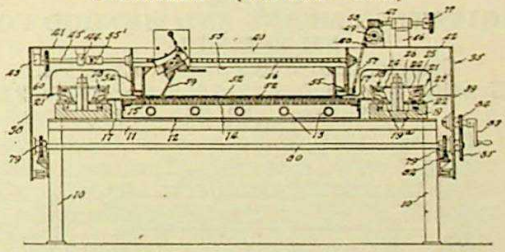
1. In a differential transmission the combination of a drive shaft; a transmission shaft coaxial with the drive shaft; supporting means applied at two points within the length of the transmission shaft; a transmission case independently rotatable upon the shafts; bevel gears rotatable in the transmission case on axes arranged radially to the axis of the shafts; bevel gears of lesser diameter attached on the inner side of the first bevel gears for rotation therewith; a bevel pinion carried by the drive shaft in meshing relation with the large bevel gears for drive of the same; a bevel pinion carried by the transmission shaft in meshing relation with the small bevel gears, all meshings being at same side of their axes of rotation; a tubular shaft independently rotatable upon the transmission shaft; a bevel pinion carried by the tubular shaft in engagement with the large bevel gears at the opposite side of their axes of rotation with regard to the above mentioned meshings; two double action torus fluid members rigidly joined and independently rotatable upon the aforementioned tubular shaft; means to brake these two double action torus fluid members in one turning direction and release them in the opposite turning direction; a torus fluid driving member attached on the outside of the transmission case facing one of the two mentioned double action torus fluid members for fluidly holding the transmission case against rotation for effecting a low speed drive; a torus fluid driving member attached on the other end of the tubular shaft facing the other one of the two mentioned double action torus fluid members for fluidly holding the tubular shaft against rotation for effecting a high intermediate speed drive; means providing a fluid coupling action among the four torus fluid members for effecting a direct drive of the drive shaft and the transmission shaft; and two covers attached one on each side of the mentioned double action torus fluid members for maintaining the fluid inside the fluid members.

2,309,913
SANDING MACHINE
Samson D. Lee, Sarasota, Fla.
Application October 12, 1940, Serial No. 360,933
5 Claims. (Cl. 51—181)



4. An abrasive tool comprising a bushing, said bushing being hollow to receive the spindle of a motor, a roll on said bushing having a peripheral wall and an end wall, a covering of abrasive material for said peripheral wall, means removably clamping said covering against said peripheral wall, an abrasive disc separate from said covering, and means independent of said first-named clamping means for removably clamping said disc against the end wall of said roll.

2,309,914
CONTINUOUS FABRIC PRINTING MACHINE
John T. Montague, Westport, Conn., assignor, by mesne assignments, to Linen Guild, Inc., New York, N. Y., a corporation of New York
Application July 29, 1940, Serial No. 348,137
8 Claims. (Cl. 101—115)

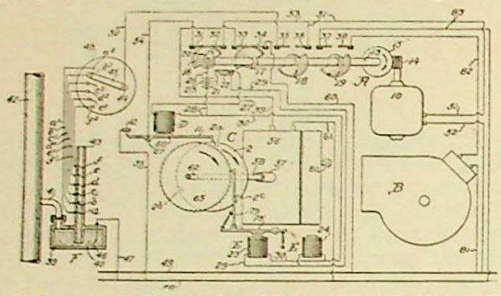


4. Stencil printing mechanism comprising a table upon which material to be printed is adapted to be received, means for moving a web of said material along said table, a carriage, a stencil movable relatively to said carriage and toward and away from said table, a scraper on said carriage for applying color through said stencil, means responsive to movement of said web for periodically interrupting movement of said web and moving said stencil into engagement with said web, means responsive to movement of said stencil toward said web to actuate said scraper to apply color to said web through said stencil, means responsive to movement of said scraper for moving said stencil away from said web and means responsive to movement of said stencil away from said table for causing movement of said web along said table.

2,309,915
APPARATUS FOR CONTROLLING HEATING SYSTEMS
Wilson M. Mulock, Chatham, Mass.
Application July 9, 1941, Serial No. 401,632
3 Claims. (Cl. 236—46)

1. In a heating system, in combination, an electrically operated multiple burner-controlling switch unit including a plurality of simultaneously operated make-and-break switches and an operating motor; a burner-starting circuit for said motor including one of the switches of said unit; an independently operated normally open switch in said starting circuit; a wheel for

periodically closing said normally open switch; electrically operated mechanism for rotating said wheel at a predetermined speed; a circuit for said wheel-rotating mechanism including another one of the switches of said unit which is opened to stop said mechanism when said unit is adjusted through operation of said starting circuit and motor by said normally open switch; a burner-stopping circuit for said motor including another



one of the switches of said unit which is closed when said unit is adjusted through operation of said starting circuit and motor, and a second switch in said burner-stopping circuit which is opened and closed through variations of a condition of the heated medium within the system thereby automatically to control the length of time the burner of the system continues in operation after each burner-starting adjustment of said unit.

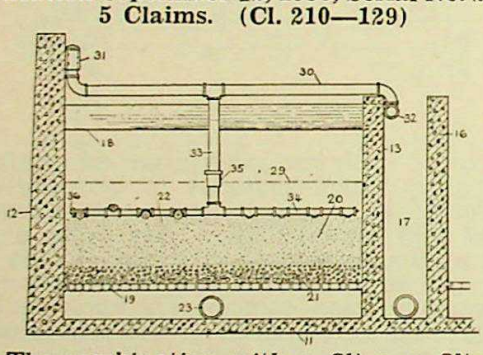
2,309,916

AGITATING MEANS AND METHOD FOR FILTER BEDS

Charles Edward Palmer, Erie, Pa.

Application September 12, 1938, Serial No. 229,431

5 Claims. (Cl. 210—129)



1. The combination with a filter, a filter bed therein comprising loose, granular filter particles adapted to be moved at a predetermined back-wash water pressure, and means for introducing back-wash water at the filter base and directing said water under pressure upwardly through the filter to back wash the same and establish a zone of suspended filter particles and water in the upper portion of the filter, of a vertically extending conduit adapted to receive water under pressure, a bearing disposed adjacent the lower end of said conduit, a horizontally extending hollow arm supported centrally by said conduit and bearing and disposed to rotate in said zone, means for transmitting water under pressure through said bearing to the arm, a plurality of nozzles disposed in spaced relation along said arm, the nozzles at each side of the axis of rotation of the arm extending in opposite directions and substantially at right angles to the arm whereby the arm will be rotated in said zone solely by the reactive force of jets issuing from said nozzles, and nozzles at each end of the arm extending generally longitudinally thereof for directing jets of water longitudinally outwardly of the arm.

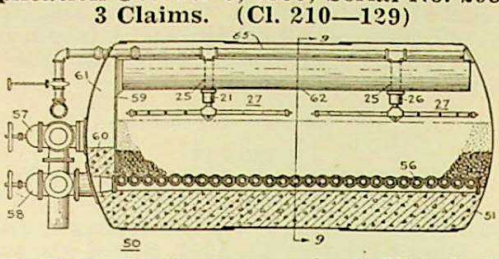
2,309,917

FILTER AGITATING MEANS AND METHOD

Charles Edward Palmer, Erie, Pa.

Application October 9, 1939, Serial No. 298,611

3 Claims. (Cl. 210—129)



1. Rotary agitating means for a filter bed comprising a fixed liquid supply conduit, a conduit arm rotatably suspended from and solely supported by said supply conduit, a plurality of nozzles spaced along the arm, the nozzles on one side of the arm axis being adapted to direct liquid jets in a given direction and those on the other side of the arm axis being adapted to direct jets in the opposite direction, the nozzles on one side of the arm axis being spaced at different distances from said axis than the nozzles at the other side of the arm axis, and means for supplying liquid under pressure to the arm.

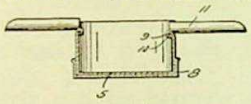
2,309,918

POCKET ASH TRAY

Newton J. Rabedew, Oroville, Calif.

Application October 24, 1941, Serial No. 416,415

1 Claim. (Cl. 131—242)



An ash receiver comprising a receptacle portion and a plurality of trough-like cigarette supporting arms pivotally attached at one end to said receptacle portion at points below the upper edge of the latter, said arms being adapted for swinging from a position projecting outwardly of the receptacle into a position within the receptacle below the upper edge of the latter and with the arms in overlapping nested relation.

2,309,919

PROCESS FOR THE PRODUCTION OF CHLORINE

Donald L. Reed, Silver Spring, Md., assignor to Henry A. Wallace, Secretary of Agriculture of the United States of America, and his successors in office

No Drawing. Application August 18, 1938, Serial No. 225,568

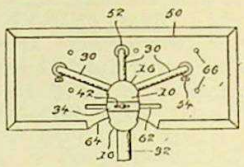
4 Claims. (Cl. 23—219)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

4. A process for the production of chlorine and nitrogen peroxide, which consists in mixing nitric acid with the hydrogen chloride- and nitrosyl chloride-containing gases, derived from treating a material selected from the group consisting of alkali and alkaline earth chlorides, with nitric acid; thence passing this gas mixture through dried "glaucosil" maintained at temperatures ranging from 40° C. to 160° C., whereby a reaction results with a production of chlorine, nitrogen peroxide and water vapor, nitrogen peroxide and water vapor being preferentially adsorbed and retained by the "glaucosil"; continuing the passage of the gases through the adsorbent until the chlorine becomes contaminated with undesirable amounts of nitrogen peroxide and water,

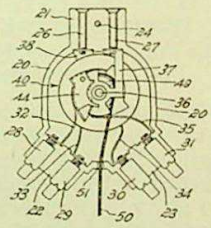
stopping the flow of the gaseous mixture, and then heating the "glaucosil" to at least 400° C. until the remaining gases are driven off and the adsorbent is regenerated.

2,309,920
ELECTRIC CIRCUIT SERVICE HEAD
Earl E. Phillips, Schuylerville, N. Y.
Application August 15, 1941, Serial No. 407,048
1 Claim. (Cl. 174—82)



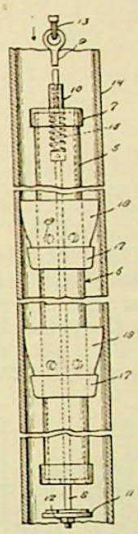
An electric circuit service head comprising a first section having a conduit entrance and grooves, circuit wires branching from the conduit entrance and lying in said grooves, a second section overlying said first section and provided with grooves registering with said first-mentioned grooves to provide openings for the circuit wires, a band encircling said sections and having a screw fastening at its ends to hold the band on the sections and connect the sections, a bracket having insulators for supporting the circuit wires from the service head, said bracket having a slot, and a fastening bolt extending through said band, the first section and said slot for connecting the parts into a unitary structure, said service head being adjustable on said bracket longitudinally of said slot.

2,309,921
SWITCHING MECHANISM FOR MULTIPLE WAY ADAPTERS
George Raft, Sydney, New South Wales, Australia
Application January 14, 1941, Serial No. 374,390
In Australia January 26, 1940
3 Claims. (Cl. 200—51.03)



1. A multiple way switch mechanism for making and breaking both sides of a circuit from a source of current to a plurality of pairs of distributing terminals comprising, a casing of insulating material, a spindle mounted on the casing, a rotor mounted for rotation on the spindle, an insulated portion and a metal portion disposed in one plane of said rotor, a second metal portion and a second insulated portion disposed in another plane on said rotor, a disc of insulating material extending circumferentially of the rotor between the first and second metal portions, means providing an electrical connection from one side of an electrical source to said spindle, means providing an electrical connection between the spindle and one of said metal portions, a contact member surrounding said spindle in a spaced relation engaging the other metal portion on said rotor and connected to the other side of said source, a plurality of circumferentially spaced contact strips arranged in a common plane for engaging one metal portion, and a plurality of circumferentially spaced contact strips arranged for engaging the other metal portion of the rotor and separated from the first contact strips adjacent the rotor by means of said disc.

2,309,922
WELL SWAB
George A. Rayner, Smithville, Tex.
Application May 19, 1941, Serial No. 394,193
1 Claim. (Cl. 103—225)

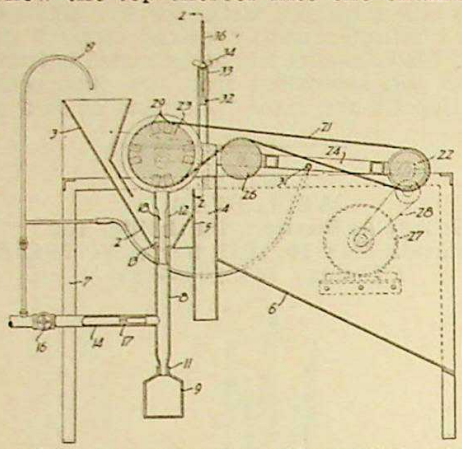


In a well swab, an elongated hollow body, spider type caps applied to the ends of said body and one of said caps providing a valve seat, a rod slidable through the caps and body and supported axially of the latter by the caps and adapted to have one end thereof connected to an operating line for vertical movement in a well, a valve element secured to the other end of the rod to cooperate with the seat of one of the caps in opening and closing the lower end of the body, a spring acting on the rod within the body and bearing against one of the caps to unseat the valve element and the latter being seated by the load of the body on the operating line, said body having groups of openings arranged annularly thereof, cup-shaped seats mounted on the body below said openings, and flexible inverted substantially conical shaped cups mounted in the seats with the major portions thereof unattached and overlying the openings to receive fluid from the body to force said unattached portions of the cups against walls of the well for removing foreign matter therefrom during reciprocation of the body by the line.

2,309,923
APPARATUS FOR SEPARATING FINELY DIVIDED MATERIALS
Milton S. Robertson, Campbell, Calif.
Application July 29, 1940, Serial No. 348,318
4 Claims. (Cl. 209—39)

1. Recovery apparatus comprising a chamber into which particles of material may be fed and having an overflow lip, an upright tube extending through the bottom of the chamber to a level adjacent but below that of the lip and having an aperture in the wall thereof adjacent the bottom of the chamber through which particles of material may pass into the tube, means for establishing a flow of fluid upwardly through the

tube to carry the lighter particles upwardly to overflow the top thereof into the chamber, and



means for removing magnetic particles from the fluid emerging from the top of the tube.

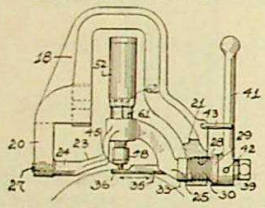
2,309,924

UNIVERSAL RADIUS TRUING FIXTURE FOR GRINDING MACHINES

Ralph E. Root, Berea, Ohio, assignor to Clyde E. Walling, Cleveland, Ohio

Application March 29, 1941, Serial No. 385,880

5 Claims. (Cl. 125—11)



1. A grinding wheel dressing fixture comprising a main frame, a secondary frame pivotally supported in said main frame, an axially offset portion on said secondary frame including a supporting arm rectangularly related to the pivot axis of said secondary frame, a dressing tool supporting shaft slidably and non-rotatably mounted in said arm, clamping means at the end of said shaft, a dressing tool longitudinally adjustably held by said clamping means, rotary means threadedly coupled with said arm and in swivel connection with said supporting shaft, and gaging means axially shiftably mounted in alignment with the pivot axis of said secondary frame for adjusting the position of said dressing tool with respect to said dressing tool supporting shaft.

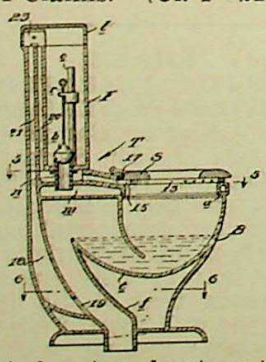
2,309,925

VENTILATED WATER CLOSET OR TOILET

Joseph G. Schotthoefer, Detroit, Mich.

Application May 3, 1941, Serial No. 391,796

14 Claims. (Cl. 4—215)



1. A ventilated water closet or toilet comprising a bowl and associated flush tank having a flush-operating handle, a pair of vertical parallel channels within the tank, the lower end of one channel communicating with the flush outlet of the bowl through a chamber in the bowl communicating with the channel, the lower end of the other channel communicating with the bowl, means for selectively creating a partial vacuum in one of said channels, means for selectively effecting communication between the upper ends of said channels, and means for simultaneously operating both of said first means.

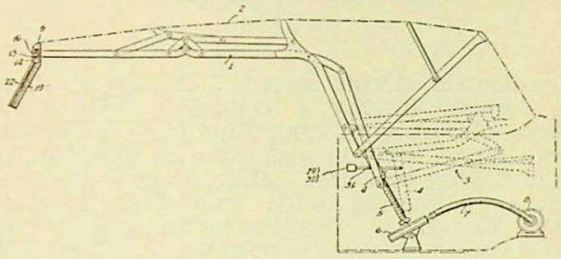
2,309,926

CONTROL SWITCH FOR CONVERTIBLE TOPS

Louis M. Baker, Birmingham, Mich., assignor to Jeronimo Falcon, Buenos Aires, Argentina

Application November 28, 1940, Serial No. 367,496

2 Claims. (Cl. 296—117)



1. In combination with a convertible top, power operated means for raising and lowering the top, manual control means for causing selective operation of said power means to raise and lower the top, and means operated by the top during movement to its final opening position for preventing operation of said power means in response to said manual control means in a direction to lower said top until said top has been moved through an initial distance from its fully opened position by forces derived from a source other than said power operated means.

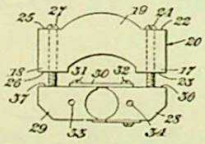
2,309,927

METER

Walter E. Beede, Penacook, N. H.

Application June 21, 1939, Serial No. 280,237

3 Claims. (Cl. 171—95)



3. In an electric meter, in combination with a movement, a cast magnet formed of a highly coercitive steel alloy having poles with rectangular bases, said poles being spaced apart a sufficient distance to permit the necessary high magneto-motive force to be applied thereto for magnetizing said magnet, cast holes formed in each of said poles and extending through said bases, a curved bridge formed integral with and joining said poles laterally, the upper extremities of said bridge terminating in said poles a sufficient distance away from the vertical sides of the magnet to present a flat surface about the upper extremities of said cast holes to be engaged by the heads of screws for securing said magnet to said movement, said bridge being of a height less than the width of the magnet.

2,309,928

CONVEYER BELT

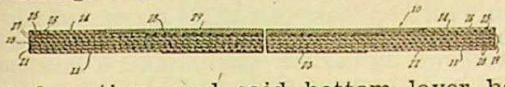
Thomas A. Bennett, New York, N. Y., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application October 19, 1940, Serial No. 361,866

4 Claims. (Cl. 198—193)

1. A flat conveyer belt comprising a carcass

composed of a plurality of layers of duck bonded together with vulcanized rubber therebetween, the bottom layer of duck extending continuously and straight across said belt in a transverse



vertical section, and said bottom layer having longitudinal bare bottom marginal surfaces and a rubber cover extending between said margins and bonded to said bottom layer of duck.

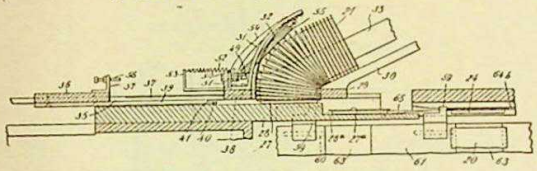
2,309,929

APPARATUS FOR APPLYING CAPS TO CONTAINERS

Frederick L. Bronson, New York, N. Y., assignor to The Fibre Can and Machinery Company, New Haven, Conn., a corporation of Connecticut

Application November 7, 1939, Serial No. 303,192

6 Claims. (Cl. 226—88.1)



5. In apparatus for feeding caps from a stack, the combination of a support on which rests the bottom cap of the stack, a second support extending upwardly from the first support at an angle, certain of the caps in the stack resting on their edges on the second support and the caps fanning out above the bottom cap in the stack, means disposed at the opposite side of the stack from the second support and engaging the edges of certain of the caps in the stack to prevent their displacement, means operable from the side of the stack opposite to that on which the second support lies to engage the cap next to the bottom in the stack and to displace said cap and adjacent caps above it to free the bottom cap, means operating after displacement of said caps to engage the freed bottom cap and to advance it positively from beneath the stack, and means acting after displacement of the freed bottom cap to engage the edges of the caps remote from the second support with a yielding action to separate such of said caps as may have been jammed together.

2,309,930

METHOD AND APPARATUS FOR GRAPHICAL COMPUTATION FOR THE SOLUTION OF NAVIGATION PROBLEMS AND SIMILAR PROBLEMS

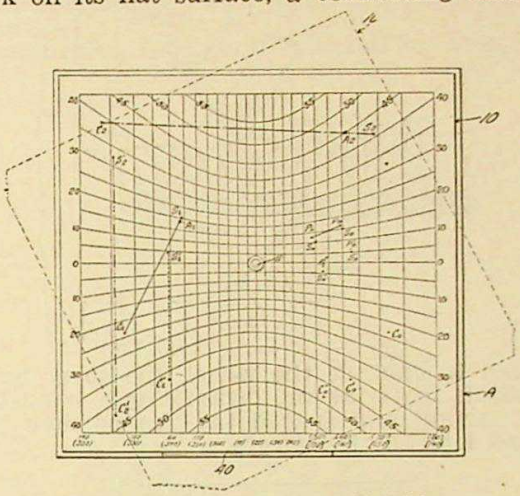
Robert W. Byerly, New York, N. Y.

Application June 27, 1941, Serial No. 400,082

22 Claims. (Cl. 33—1)

1. The method of obtaining the great-circle distance between two points of a spherical surface, which comprises plotting the points on a gnomonic projection of the parallels and meridians of a sphere, swinging the points in the plane of the projection about the contact point of the projection without changing the distance between them until they lie on a common meridian of the projection, and then reading the latitude of each point, the algebraic difference between said readings being the required great-circle distance.

14. Graphical-computation apparatus for navigation problems and the like, comprising a chart bearing a gnomonic projection of the parallels and meridians of a sphere, a member pivoted to said chart at the contact point of the projection, a plano-convex lens having a mark at the center of its flat surface, a second plano-convex lens having a diametrical line and a mark on its flat surface, a connecting member



pivoted to the first lens and slidably connected to the second lens in such manner that the diametrical mark on the second lens extends towards the center mark on the first lens, and releasable means for locking said lenses to said pivoted member.

2,309,931

PROCESS OF SEPARATING ORE PARTICLES IN GRAVITY SEPARATING MEDIUMS

Shelton T. Cameron, Washington, D. C., assignor, by mesne assignments, to Minerals Beneficiation Incorporated, Joplin, Mo., a corporation of Delaware

No Drawing. Application June 27, 1940, Serial No. 342,799

2 Claims. (Cl. 209—173)

1. The process of separating ore particles which consists in continuously feeding the ore particles to a separating tank containing liquid separating medium consisting of water and comminuted solids, and maintaining the liquidity of the medium constant by continuously adding a floc-inhibiting agent to the medium in the separating tank and at a rate sufficient to practically prevent flocculation of slimes and the solids of the medium.

2,309,932

RUBBER HYDROCHLORIDE COMPOSITION

James P. Chittum and George E. Hulse, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application January 24, 1940, Serial No. 315,327

9 Claims. (Cl. 260—735)

1. A rubber hydrochloride composition containing an N,N′-diaryl piperazine, wherein the aryl groups are selected from the class consisting of the benzene, and naphthalene series, in a small amount sufficient to retard the photochemical disintegration of the rubber hydrochloride.

2,309,933

COVER

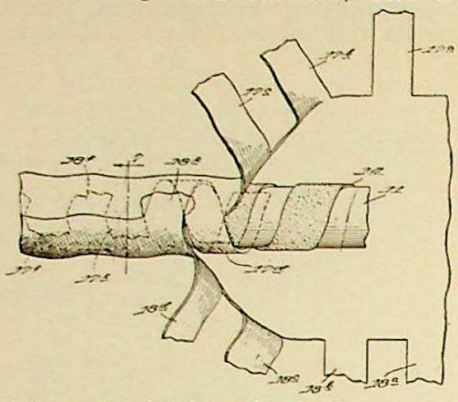
Ralph H. Churchill, Chicago, Ill.

Application June 20, 1941, Serial No. 399,004

5 Claims. (Cl. 74—558)

1. A combination of the character described,

including: a wheel; a tape having one side adapted to adhere to the wheel and another side providing a roughened exterior; and a cover



adapted to encircle the wheel, the cover being of flexible material and comprising a band-like body portion and spaced tab-like portions extending laterally therefrom.

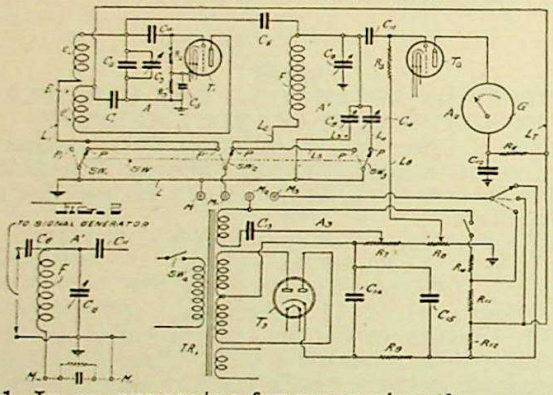
2,309,934

ELECTRICAL MEASURING DEVICE

Roby J. Clay, Sturgis, Mich.

Application July 22, 1941, Serial No. 403,579

10 Claims. (Cl. 175—183)



1. In an apparatus for measuring the capacity of a condenser connected in a radio circuit, a pair of test terminals adapted to be connected with the ends of the condenser to be tested, an oscillating signal generating circuit, means for adjusting said circuit to operate at a fixed frequency or at varying frequencies within a predetermined frequency range, a tuned resonance circuit including a tuning coil and a variable condenser for tuning the coil into resonance with the signal generated by the signal circuit when oscillating at a frequency determined by the capacity of the condenser under test, means for coordinately adjusting the resonance circuit when the oscillation circuit is adjusted to adapt it to respond to any of the generated frequencies, and means for indicating the resonant frequency of the resonance circuit.

2,309,935

PROCESS FOR BREAKING PETROLEUM EMULSIONS

Edwin E. Claytor, Long Beach, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

No Drawing. Application June 19, 1941, Serial No. 398,815

8 Claims. (Cl. 252—338)

1. A process for resolving petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifier comprising a chemical compound consisting of the salt of a basic amine; said amine salt being obtained from an alkylated naphthalene sulfonic acid in which at least one alkyl group substituted in the naphthalene nucleus contains at least three and not over 10 carbon atoms, and a heat-polymerized basic hydroxyamine.

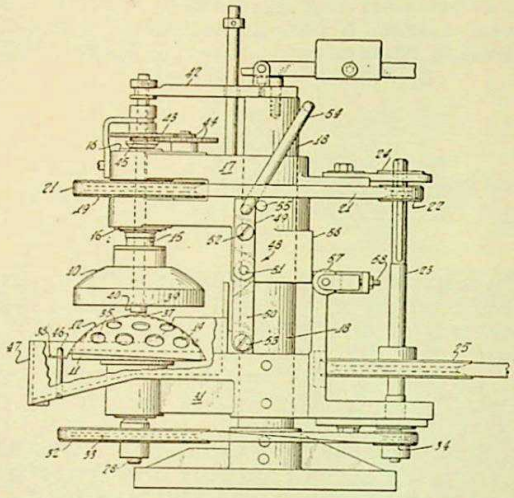
2,309,936

LENS GRINDING AND POLISHING MACHINE

Raymond C. David, Leominster, Mass., assignor to Fosgood Corporation, Leominster, Mass., a corporation of Massachusetts

Application December 23, 1940, Serial No. 371,293

7 Claims. (Cl. 51—111)



1. In a machine of the character described, a vertically movable hollow rotary shaft, a curved lap carried by said shaft to rotate and move vertically therewith, a vertically immovable rotary rod passing axially through said shaft, means for rotating said rod at a slower speed than the rotation of the shaft, a vertically immovable rotary shaft in axial alignment with the first mentioned shaft, a curved lap mounted on said second shaft to rotate therewith, a spider for holding a plurality of lenses disposed between the laps, and means for rocking and oscillating the spider relatively to the laps including an eccentric connection of the spider to the rod.

2,309,937

HYDROXY DERIVATIVES OF SULPHONAL AND ITS HOMOLOGUES

Hans Dietrich, Mannheim-Waldhof, Fritz Johannessohn, Mannheim-Feudenheim, and Erich Rabald and Walter Peris, Mannheim-Waldhof, Germany, assignors to Rare Chemicals, Inc., Nepera Park, N. Y., a corporation of New York

No Drawing. Application July 2, 1940, Serial No. 343,566

8 Claims. (Cl. 260—607)

8. New chemical compounds having the general formula:

$$\begin{array}{c} R \\ | \\ C{=}(SO_2C_2H_5)_2 \\ | \\ R_1 \end{array}$$

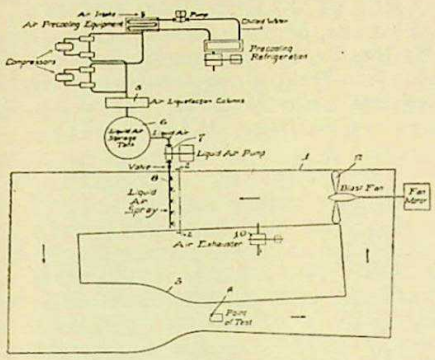
in which R is a member of the group consisting of CH_3 and C_2H_5 and R_1 is a member of the group consisting of CH_2OH and $CH(OH)CH_3$ which are white crystalline substances easily soluble in water, alcohol, chloroform, methylene chloride, benzene and slightly soluble in ligroine.

2,309,938

COOLING SYSTEM FOR WIND TUNNELS OR SIMILAR ENCLOSURES

Paul Diserens, Summit, and Horace Edmund Karig, Chatham, N. J.; and Michael E. O'Connell, New York, N. Y., assignors to Worthington Pump and Machinery Corporation, Harrison, N. J., a corporation of Delaware

Application December 4, 1941, Serial No. 421,630
18 Claims. (Cl. 62—178)



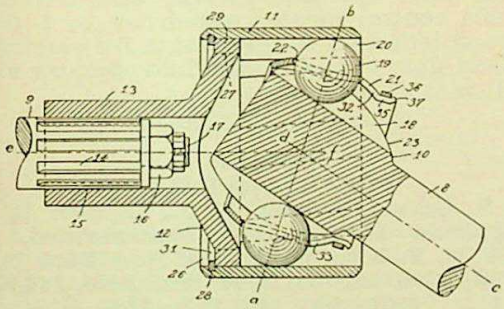
1. The method of cooling an enclosure which consists in creating an air current in the enclosure and spraying liquid air into said enclosure in the air current in a direction transversely of the path of the air current.

2,309,939

UNIVERSAL JOINT

Adiel Y. Dodge, Rockford, Ill.

Application December 9, 1939, Serial No. 308,330
4 Claims. (Cl. 64—21)



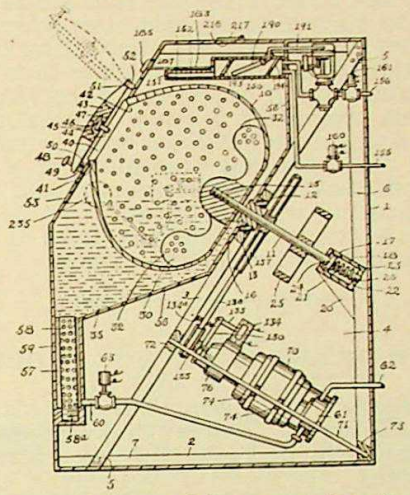
3. A universal joint having, in combination, a member having a head at one end with a spherical external surface and outwardly opening ball raceways extending generally longitudinally of the member axis, a member enclosing said head and having an internal cylindrical surface and with inwardly opening raceways crossing said first mentioned raceways when said members are axially alined, balls seating in the respective pairs of raceways at the intersections thereof, the raceways in each of said members extending generally helically of the respective members, and a cage of unitary construction having a working fit with said external surface so as to be confined thereby against bodily movement axially of this member and having annularly spaced recesses receiving said balls and engaging the same to position certain of the balls and maintain all of them in a common plane, said cage being out of rubbing contact with said cylindrical surface and being positioned relative to the inner member solely by certain of said balls coacting with their intersecting inner and outer raceways.

2,309,940

DOMESTIC WASHING MACHINE

Peyton W. Douglas, Utica, N. Y., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 23, 1938, Serial No. 215,361
2 Claims. (Cl. 68—24)



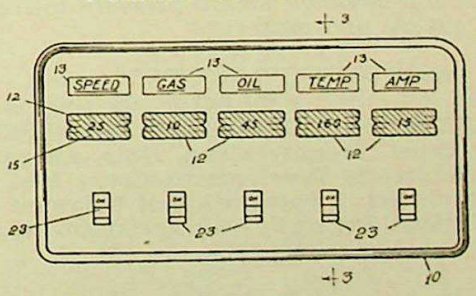
2. In a washing machine, a casing for holding water, a cover on said casing, a basket disposed within said casing, a cover for said basket and swiveled to the cover on said casing, a shaft having its axis inclined at a substantial angle between the vertical and horizontal, said shaft yielding axially and attached to and supporting said basket, said cover being normal to said axis when said covers are in closed position, means for yieldingly biasing said basket upwardly towards said covers, said means acting to yieldingly support a portion of the weight of said basket and means for rotating said basket at a relatively low speed for washing and at a relatively high speed for drying.

2,309,941

WARNING SIGNAL DEVICE

Carlton C. Drummond, Providence, R. I.

Application February 17, 1940, Serial No. 319,382
1 Claim. (Cl. 116—129)



In a device of the class described including a plurality of indicating mechanisms for indicating the condition of operation of a motor vehicle and responsive to change thereof, each mechanism being provided with a rotatable drum for an indicating scale, said drums being located in close proximity, an elongated panel member in front of said drums provided with a plurality of slots of equal width therethrough with each slot exposing one of said drums, said slots extending longitudinally of the panel in alignment to form a single horizontal row, each slot being longer than the distance between said slots, the terminal ends of the adjacent slots being located in close proximity to each other so as to ap-

proximate a single relatively long continuous slotted opening in the panel, and a plurality of indicator-bearing scales one on each of said drums behind said panel, each of said scales having a plurality of color areas and being independently revoluble past its associated slot, the color areas being alike for the portions of said scale indicating normal operation, whereby color areas of the same color on said scales will be exposed to view through said slots when all the said scales are moved into indicating positions corresponding to a normal reading to indicate a normal condition of operation of the vehicle and said scales presenting a visual indication in the form of a disconnected color band in which the break in the apparent continuity of a desired color is effected by interposition in said band of a different color when at least one of said scales indicates a condition differing from a normal condition of operation of the vehicle.

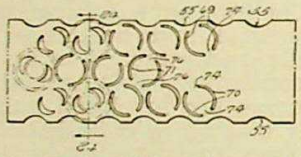
2,309,942

METHOD OF AND BLANK FOR PRODUCING EYELETS OR THE LIKE

John W. Ekstedt and Kenneth W. Ekstedt, Union, N. J., assignors to General Eyelet Supply Company, Inc., Roselle Park, N. J., a corporation of New Jersey

Original application February 6, 1940, Serial No. 317,604. Divided and this application September 17, 1941, Serial No. 411,242

18 Claims. (Cl. 113—50)



1. In the method of forming eyelets from a strip which can be drawn, the steps of effecting a step-by-step longitudinal feeding movement of the strip, forming sets of pairs of opposed slits in the strip between its longitudinal edges while the strip is at rest between its step movements, subjecting the portions of the strip between the pairs of opposed slits to a drawing action while subjecting the strip to a pressure in opposition to the pressure of the drawing action to produce the eyelets, and increasing said pressure in opposition to the drawing action pressure to free the drawn eyelets and strip.

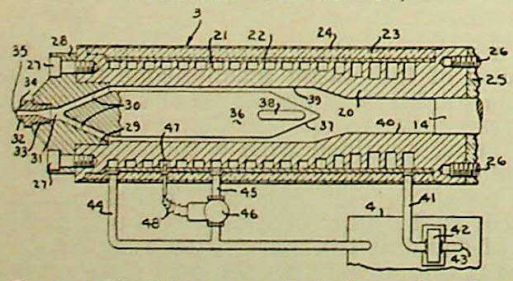
2,309,943

MULTIPLE CIRCUIT HEAT TRANSFER

Walter Ernst, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp., Inc., Wilmington, Del., a corporation of Delaware

Application August 2, 1940, Serial No. 349,969

12 Claims. (Cl. 18—30)



1. In combination, an injector chamber, an injector plunger reciprocable therein, an operating member for reciprocating said plunger, a plurality of passageways connected in series and in heat-transfer relation with respect to the chamber, said passageways being adapted to receive a heated fluid, means for forcing the fluid through the passageways, and means for reducing the flow of the heated fluid through any predetermined number of passageways while maintaining a substantially constant flow of fluid through the remaining passageways, whereby the heating of the chamber is controlled.

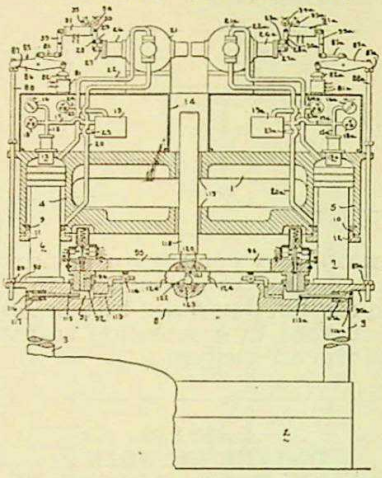
2,309,944

PLATEN LEVELING DEVICE

Paul E. Flowers, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware

Application June 21, 1941, Serial No. 399,169

18 Claims. (Cl. 100—71)



1. In a press having a press platen, a plurality of fluid operable means for advancing said platen, a fluid source for supplying pressure fluid to said fluid operable means, and electrically operable control means responsive to a predetermined deflection of said platen for varying the supply of fluid to one of said fluid operable means to reduce said deflection.

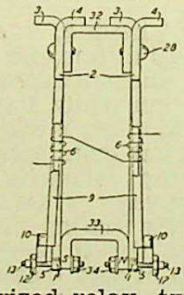
2,309,945

POLARIZED RELAY

John S. Garvin, Bogota, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 11, 1940, Serial No. 344,902

5 Claims. (Cl. 175—339)



2. In a polarized relay, two cores, each having an energizing winding thereon, means for magnetically interconnecting one end of one core to one end of the other core, a permanent magnet interconnecting the other ends of said cores, said cores, means and magnet constituting a closed magnetic circuit, and two armatures pivotally supported one on each of said cores and forming normally open magnetic circuits therewith, said armatures alternatively attractable to their respective cores in accordance with the direction of current flow through said energizing windings.

2,309,946

TEXTILE PRINTING COMPOSITION AND METHOD OF PRINTING THEREWITH

Albert E. Gessler, New York, and Roy A. Pizzarello, Mount Vernon, N. Y., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio

No Drawing. Application May 27, 1940, Serial No. 337,490

8 Claims. (Cl. 8—71)

1. A composition convertible into a textile printing paste by the admixture of aqueous fluid therein comprising a water-immiscible solution of a water-insoluble organic film-forming agent, in a volatile water-immiscible organic solvent, which solution will produce a stable water-in-organic solution emulsion when water is admixed therewith, said solution having at least microscopically distributed therethrough a water-insoluble triazene of the group consisting of diazoamino and diazoimino compounds, which remains unaffected in the organic continuous phase when a neutral or alkaline aqueous fluid is emulsified into the organic solution, and which reacts to produce a water-dispersible diazo salt when strongly acid aqueous fluid is emulsified into the organic solution.

2,309,947

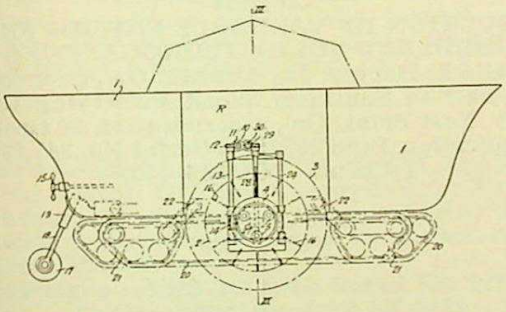
AMPHIBIOUS ARMORED VEHICLE

Geoffrey Maxwell Gibbs and Thomas Rawson Tusting, London, England

Application June 23, 1941, Serial No. 399,352

In Great Britain July 13, 1940

2 Claims. (Cl. 115—1)



1. An amphibian vehicle comprising in combination a buoyant body, a power unit carried by the body, an endless track arrangement to propel the vehicle over relatively soft ground, means to connect the track to the body at a fixed height, propelling wheels to propel the vehicle over relatively hard ground, means associated with said propelling wheels for propelling said vehicle through water, frames connecting the wheels to the body, a pair of vertical screws journalled on the body, nuts carried by the frames and respectively engaging said screws, means for transmitting drive from said power unit to said screws for raising and lowering said frames, to alter the positions of the wheels in relation to the endless track arrangement to bring either the wheels or the endless track arrangement into propelling position, and means to transmit drive from the power unit to the endless track arrangement and to the propelling wheels.

2,309,948

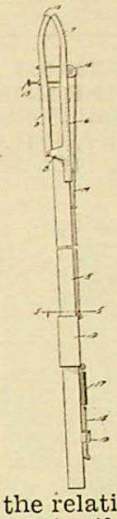
FRUIT PICKER

Henry Goebel, Vista, Calif.

Application July 30, 1941, Serial No. 404,702

4 Claims. (Cl. 56—333)

1. In a fruit picker, a pole, a relatively fixed jaw secured to said pole, a movable jaw pivoted to the relatively fixed jaw, spring means on the movable jaw and bearing against the pole for urging the movable jaw away from the relatively fixed jaw, means for limiting the movement of the movable jaw toward the relatively fixed jaw,



a pulley carried by the relatively fixed jaw, a flexible element secured to the movable jaw and trained over said pulley, an operating sleeve having the flexible element secured thereto and slidable on the pole, and spring means connected to the sleeve and to the pole.

2,309,949

PREPARATION OF MIXED ESTERS OF POLYHYDRIC ALCOHOLS

Chester M. Gooding, Staten Island, N. Y., assignor to The Best Foods, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application May 23, 1939, Serial No. 275,154

14 Claims. (Cl. 260—411)

1. A method of preparing mixed esters of polyhydric alcohols, comprising heating mixtures of substantially completely esterified esters of polyhydric alcohols to a temperature of about 225 to 260° C. in the presence of about 0.05% to 1% of a sodium soap and about 0.05% to 2% of glycerol by weight.

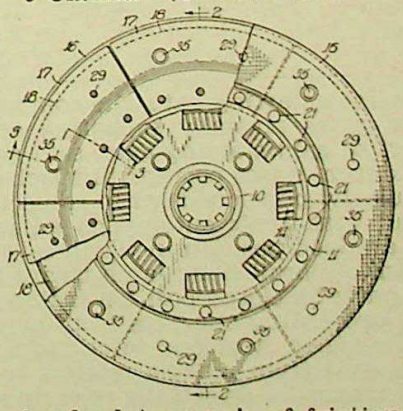
2,309,950

CLUTCH PLATE

George I. Goodwin, Detroit, Mich.

Application March 29, 1940, Serial No. 326,752

9 Claims. (Cl. 192—107)



1. In a clutch plate, a pair of friction facings, and a pair of segmental cushion springs between the facings, one spring being attached to one facing, and the other spring being attached to the other facing, each spring providing a cir-

cumferentially extending supporting area for the facing to which it is attached, with the supporting area for one facing extending from its outside inwardly, and the supporting area for the other facing extending from its inside outwardly.

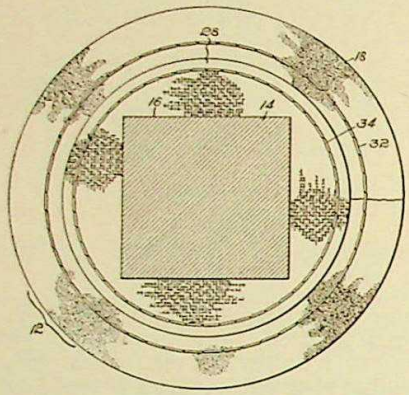
2,309,951

ROTARY ABRADING TOOL

Elisha W. Hall, Scituate, Mass.

Application January 7, 1941, Serial No. 373,443

3 Claims. (Cl. 51—193)



1. A flexible, rotary cylinder abrading tool comprising a helically-wound, composite strip composed of two layers of cloth, each teazeled on one side only, the non-teazeled sides being disposed face to face.

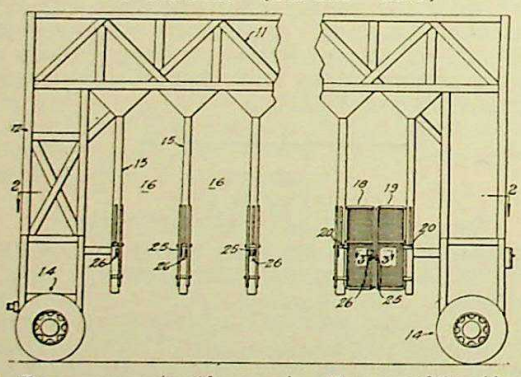
2,309,952

STARTING GATE

Norman C. Harris and Jesse P. Whann, Los Angeles, Calif., assignors to Puett Electrical Starting Gate Corporation, Los Angeles, Calif., a corporation of California

Application November 6, 1940, Serial No. 364,502

10 Claims. (Cl. 119—15.5)



1. In a race starting gate, the combination of: a pair of gates pivotally supported at the forward part of said starting gate, said gates being swingable from closed position in which said gates are angularly positioned with respect to each other and with their outer ends adjacent each other to an open position in which said gates are in substantial parallelism; latch means for latching said gates in closed position including a first latch for preventing one gate from moving relative to the other, a second latch for preventing the other gate from moving relative to the first gate, and means for selectively releasing said first latch which permits said first mentioned gate to move relative to the second mentioned gate, whereupon said second latch is automatically released; and means for moving said gates into open position.

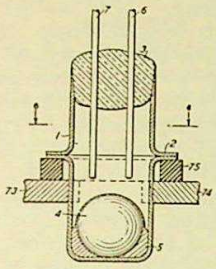
2,309,953

ELECTRIC SWITCH

Henry C. Harrison, Port Washington, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 15, 1940, Serial No. 340,653

7 Claims. (Cl. 200—112)



1. The combination in an electric switch of a housing member, a pool of mercury in said housing member, a ball of magnetic material normally resting with a portion of its surface in said pool, the forces of capillary action serving to attract mercury from said pool to cover the remaining surface of said ball with a coating of the liquid, a fixed solid terminal mounted in said housing member, and electromagnetic means for moving said mercury-coated ball into engagement with said fixed terminal to establish an electric circuit.

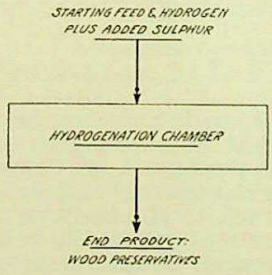
2,309,954

PRODUCTION OF VALUABLE LIQUIDS FROM LIQUID AND SOLID HYDROCARBONS

Jacquelin E. Harvey, Jr., Atlanta, Ga., assignor of one-half to Southern Wood Preserving Company, East Point, Ga., a corporation of Georgia

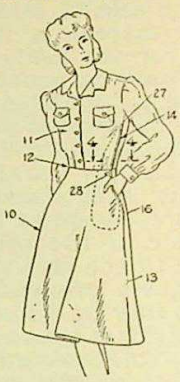
Application June 20, 1940, Serial No. 341,594

1 Claim. (Cl. 196—53)



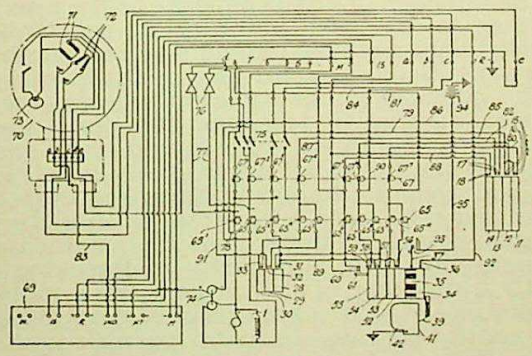
The method of producing a preservative wood impregnant which comprises: subjecting a mixture of high temperature coal tar fractions to the action of hydrogen in the presence of a sulfide catalyst with time, temperature and pressure so controlled as to induce newly formed toxic fractions, the while reducing coke residue, specific gravity and viscosity; lowering toxicity blanketing effect in fractions boiling above 270° C. on the newly formed fractions of induced toxicity boiling below that temperature by inclusion during said hydrogen action of a partial pressure of at least about one atmosphere of hydrogen sulfide a portion of which is derived from an extraneous source; coordinating the process variables above named so as to provide total conversion of the starting material into an oil of the wood preserving type having toxicity in excess of its parent material and being further characterized by not in excess of 35% boiling at 235° C.

2,309,955
GARMENT CONSTRUCTION
Rudolf Hirschfeld, New York, N. Y.
Application June 18, 1942, Serial No. 447,509
2 Claims. (Cl. 2—74)



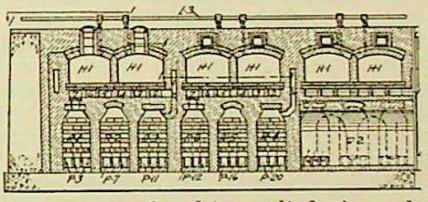
1. In a unitary woman's garment having a waistband portion narrower than the bust and hip portions, a placket opening in the waistband region and at the side of the garment, and a seal for said opening comprising a pocket whose outer edges are permanently secured respectively to the opposed edges of said opening, whose bottom edge lies substantially below the lower end of said placket opening, and whose inner edge converges upwardly with respect to the side of the garment and merges with the latter at a point above the waistband portion of the garment, said pocket thus defining an expansible tapering interior pleat which permanently seals said placket opening but which nevertheless allows the waistband portion to expand during the passage of the garment over the bust or hips of the wearer when the garment is put on or taken off.

2,309,956
APPARATUS FOR DEPTH MEASUREMENT
Arthur Joseph Hughes, Chigwell Row, England, assignor of one-half to Henry Hughes & Son Limited, London, England, a corporation of Great Britain
Application April 16, 1940, Serial No. 329,989
In Great Britain June 28, 1939
9 Claims. (Cl. 177—386)



9. A recording and indicating apparatus for echo-sounding apparatus comprising a support for a record sheet, a stylus movably mounted adjacent to said sheet, constant speed driving means for moving said stylus across said sheet, a change speed gearing connected between said stylus and said driving means for moving said stylus selectively at two different speeds and for disconnecting said stylus from said driving means, shifting means for shifting said change speed gearing, a repeating indicator having a movable member for giving a visual indication, means for moving said member, first switching means actuated by said driving means and movable with said stylus for supplying operating impulses to said indicator to cause said movable member to give indications corresponding to the records made by said stylus on said record sheet, a second switching means actuated by said driving means independently of said stylus electrically connected to said indicator for supplying operating impulses to said indicator, third switching means mechanically connected to said shifting means and electrically connected to said first and second switching means for electrically connecting said indicator to said second switching means when said stylus is disconnected from said driving means and electrically disconnecting said indicator and said first switching means, and for electrically connecting said indicator and said first switching means when said stylus is moved by said driving means and electrically disconnecting said indicator and said second switching means, and manually actuated switching means for selectively connecting and disconnecting said first switching means and said indicator.

2,309,957
PROCESS FOR COKING CARBONACEOUS MATERIAL
Charles H. Hughes, Glen Ridge, N. J., assignor to Hughes By-Product Coke Oven Corporation, New York, N. Y., a corporation of New York
Original application March 8, 1940, Serial No. 322,875. Divided and this application March 1, 1941, Serial No. 381,356
2 Claims. (Cl. 202—12)



1. The process of coking pitch in a long rectangular oven broader than its height and having a pair of combined coking chambers, which comprises introducing pitch into one chamber of said pair of combined coking chambers; spreading said pitch onto the sole of the coking chamber in a layer that is thinner than its width and length; introducing coal into the other coking chamber; sealing said oven against the admission of air; establishing under the soles of said pair of combined coking chambers and longitudinally thereof, a flow of hot combustion gases to furnish heat at a temperature sufficient to coke the coal and the pitch; changing the direction of said flow of hot combustion gases at predetermined space intervals transversely with respect to said pair of combined coking chambers to provide a single and continuous serpentine stream of hot combustion gases under substantially the total area of the soles of said pair of combined coking chambers; alternately reversing the said flow of hot combustion gases at predetermined time intervals to reverse the entire single and continuous serpentine stream of hot combustion gases, whereby uniform heating conditions over substantially the total area of the soles of said pair of combined coking chambers can be attained, and whereby hot spots and partly overcoking and partly undercoking the pitch and the coal on the soles of said pair of combined coking chambers are avoided; continuing said alternate reversals until the entire volume of the layer of pitch is fully coked; removing at least a portion of the volatile constituents of the coal from the coking chamber

wherein the coal is contained; and conducting said volatile constituents beneath the soles of the pair of combined coking chambers to provide the hot combustion gases for coking the pitch and the coal, whereby the pitch is coked substantially uniformly.

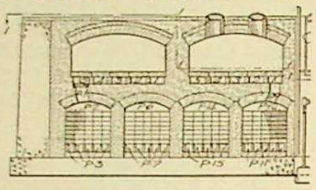
2,309,958

PROCESS FOR COKING CARBONACEOUS MATERIAL

Charles H. Hughes, Glen Ridge, N. J., assignor to Hughes By-Product Coke Oven Corporation, New York, N. Y., a corporation of New York

Original application October 25, 1939, Serial No. 301,172. Divided and this application March 1, 1941, Serial No. 381,357

5 Claims. (Cl. 202—12)



1. The process of coking carbonaceous material in a coking chamber of a long rectangular oven broader than its height, which comprises introducing carbonaceous material into said coking chamber; spreading said carbonaceous material onto the sole of said coking chamber in a layer that is thinner than its width and length; sealing said oven against the admission of air; establishing under substantially the entire sole of said coking chamber and substantially parallel and immediately adjacent thereto a flow of hot combustion gases to furnish heat at a temperature sufficient to coke said carbonaceous material on the sole of said coking chamber; changing the direction of said flow of hot combustion gases at predetermined space intervals under the sole of said coking chamber to provide a single and continuous serpentine stream of hot combustion gases under substantially the total area of the sole of said coking chamber and in a plane substantially parallel to the sole of said coking chamber; alternately reversing the direction of said flow of hot combustion gases at predetermined time intervals to reverse the entire single and continuous serpentine stream of hot combustion gases, whereby uniform heating conditions over substantially the total area of the sole of said coking chamber can be attained and whereby hot spots and partly overcoking and partly undercoking the carbonaceous material on the sole of said coking chamber are avoided; and continuing said alternate reversals until the entire volume of the layer of carbonaceous material in said coking chamber is fully coked, whereby carbonaceous material is coked in said coking chamber substantially uniformly.

2,309,959

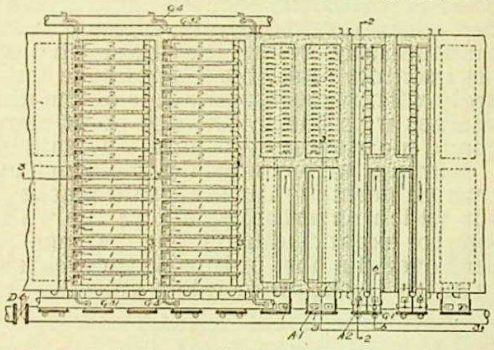
PROCESS FOR COKING CARBONACEOUS MATERIAL

Charles H. Hughes, Glen Ridge, N. J., assignor to Hughes By-Product Coke Oven Corporation, New York, N. Y., a corporation of New York

Original application October 25, 1939, Serial No. 301,173. Divided and this application March 1, 1941, Serial No. 381,358

4 Claims. (Cl. 202—12)

1. The process of coking carbonaceous material in a coking chamber of a long, rectangular oven broader than its height, which comprises introducing carbonaceous material into said coking chamber; spreading said carbonaceous material onto the sole of said coking chamber in a layer that is thinner than its width and length; sealing said oven against the admission of air; originating at predetermined space intervals along a portion of one side of the sole of said coking chamber and transversely thereof, a flow of hot combustion gases to furnish heat at a temperature sufficient to coke said carbonaceous material on the sole of said coking chamber; conducting said flow of hot combustion gases under a portion of the area of the sole of said coking chamber in a plurality of substantially parallel unidirectional individual streams, said streams having their ends at predetermined space intervals along a portion of the side of the sole of said coking chamber opposite to the side where the flow of hot combustion gases originated; merging the ends of said plurality of substantially parallel unidirectional individual streams to combine the flow of hot combustion gases into a single stream underneath the side of the sole of said coking chamber opposite to the side where the flow of hot combustion gases originated and substantially perpendicular to said plurality of substantially parallel unidirectional individual streams; dividing the flow of hot combustion gases in said



single stream into another plurality of substantially parallel unidirectional individual streams of hot combustion gases under the remaining portion of the area of the sole of said coking chamber and transversely thereof, said streams having their ends at predetermined space intervals along the remaining portion of the side of the sole of said coking chamber where the flow of hot combustion gases originated and wherein the direction of flow is opposite to the direction of flow in the first plurality of substantially parallel unidirectional individual streams, whereby substantially the total area of the sole of said coking chamber can be sufficiently heated for full coking; alternately reversing the directions of flow of hot combustion gases in said single stream and said pluralities of substantially parallel individual streams, whereby uniform heating conditions over substantially the total area of the sole of said coking chamber can be attained and whereby hot spots and partly undercoking and partly overcoking of the carbonaceous material on the sole of said coking chamber are avoided; and continuing said alternate reversals until the entire volume of the layer of carbonaceous material is fully coked, whereby carbonaceous material is coked substantially uniformly.

2,309,960

PHOTOGRAPHIC APPARATUS

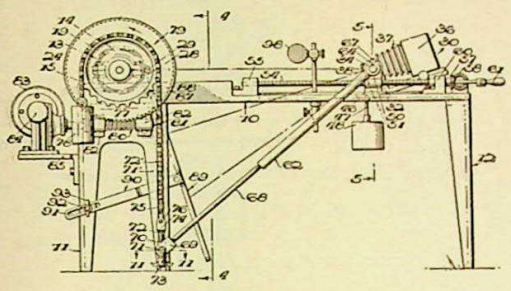
Henry Kershaw, Belleville, N. J.

Application February 28, 1941, Serial No. 381,113

9 Claims. (Cl. 88—24)

5. In photographic apparatus, a supporting structure, a support mounted upon the supporting structure and movable longitudinally thereof,

means to move the support longitudinally of the supporting structure, a design carrier, means to pivotally mount the design carrier upon the support so that the design carrier may turn to selected angular positions with relation to the sup-



port, means to effect the turning movement of the design carrier including a longitudinally extensible lever having a free end, guide means associated with the free end of the lever, operating means connected with the free end of the lever, and means to project the design.

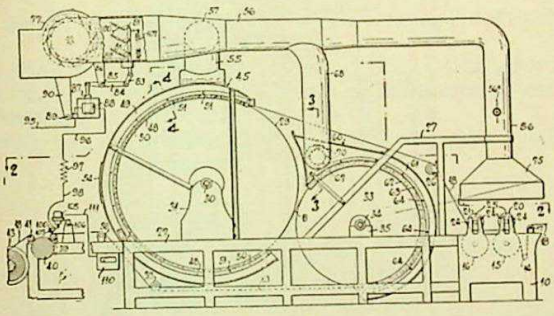
2,309,961

TEXTILE DRYING APPARATUS

George T. King, Sr., Lancaster, S. C.; Walter C. King administrator of said George Thomas King, Sr., deceased

Application September 22, 1941, Serial No. 411,862

2 Claims. (Cl. 34—114)



1. Apparatus for drying yarn comprising a large heated revolving drum around which yarn is adapted to pass, a comparatively small heated revolving drum around which said yarn is adapted to pass after leaving the large drum, said drums having substantially parallel axes of rotation, and having the peripheries thereof located in close proximity to each other, a hood covering a substantial portion of said smaller drum, and having a sliding fit with the ends thereof, the inner periphery of said hood being disposed substantially parallel to the periphery of the small drum for a major portion of its length and then projecting in a tangential direction near the top of the drum and terminating adjacent the large drum thereby forming an enlarged compartment between the large and small drums, the hood for the smaller drum being open at its lower end and being spaced from the periphery of the smaller drum, thereby providing a slot extending across the entire width of the smaller drum to admit air to the chamber formed between the hood and the smaller drum, a duct leading from said compartment, means for providing a suction draft in said duct and between said hood and the smaller drum, and a damper in said duct for regulating the velocity of said draft.

2,309,962

COATED FIBRO-CEMENT PRODUCT

Charles E. Kraus, Sparks, Md.

No Drawing. Application April 22, 1939, Serial No. 269,532

5 Claims. (Cl. 117—126)

1. A coated fibro-cement product consisting of a sheet of fibro-cement surfaced with a homogeneous, uniform, imperforate, insoluble pigmented coating comprising the thermal reaction products of sodium silicate and halloysite in substantially irreversible colloidal form.

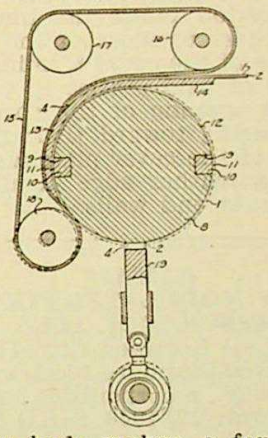
2,309,963

APPARATUS FOR MAKING CAN BODIES

Frank Krueger, Milbrae, Calif., assignor to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware

Application March 13, 1940, Serial No. 323,715

6 Claims. (Cl. 153—32)



1. In a can body maker, a forming horn, an endless belt mounted for movement transversely of said horn and adjacent thereto, a stationary arbor interposed between said horn and said belt, and partially surrounding said horn and spaced from said horn to permit a can body blank to pass between the arbor and the horn, means to drive said belt to cause the blank to travel along the exterior surface of said arbor to feed the blank over said arbor on to said horn and around said horn under said arbor to form the blank into cylindrical form.

2,309,964

PROCESS FOR MATTING OF TEXTILES

Albert Landolt, Riehen, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Application August 17, 1940, Serial No. 353,149. In Switzerland August 19, 1939

4 Claims. (Cl. 8—135)

1. Process for the matting of textiles with the help of inorganic pigment suspensions in aqueous media, which comprises treating the said textiles with a matting bath which contains, as the essential matting-effecting ingredients, an inorganic matting pigment and a dissolved salt of a metal which is at least trivalent, the metal being present in the salt as cation.

2,309,965

MULTIPLE MATCH BOOK CASE

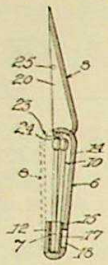
Gerhard M. Lee, Aurora, Ill.

Application May 17, 1941, Serial No. 394,015

1 Claim. (Cl. 206—33)

A match-book case comprising, a relatively elongated body portion having flat end-walls and

rounded side walls, partition means extending between said side walls dividing the interior into at least two compartments for reception of match books, a plate of substantially match-book-stub-width extending between said end-walls and overlying said partition means providing pockets for reception of match-book stubs, said body portion formed with strike openings in its rear wall, a cover member comprising a front plate



and end-walls spaced to overlie the end-walls of the body portion, pintle pins hinging the end-walls of the cover to those of the body portion, the front plate of the cover terminating short of the axial line of said pintles to provide a stop against excess opening of the cover, said cover end walls tapering toward their free ends and the free edge of the cover plate also tapering to substantially a feather edge in alignment with the taper of said end walls.

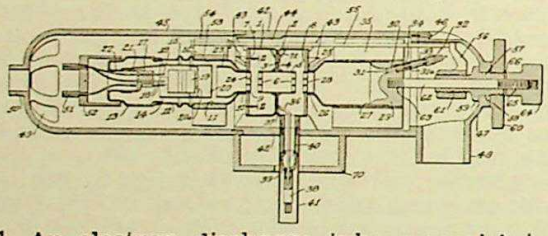
2,309,966

VELOCITY MODULATED ELECTRICAL DISCHARGE TUBE

Charles V. Litton, Redwood City, Calif., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application July 13, 1940, Serial No. 345,281

13 Claims. (Cl. 250—27.5)



1. An electron discharge tube comprising an evacuated envelope, enclosing means surrounding and protecting said envelope, said enclosing means including an enclosing ring surrounding a part of said envelope, clamping means attached to said ring and holding said envelope in a fixed position with respect to said ring, a pair of end caps attached to the two ends of said enclosing ring enclosing and protecting the remaining portions of said envelope and adjustable means carried by said enclosing means and connected to a part of said envelope for adjustably varying electric properties of said envelope.

2,309,967

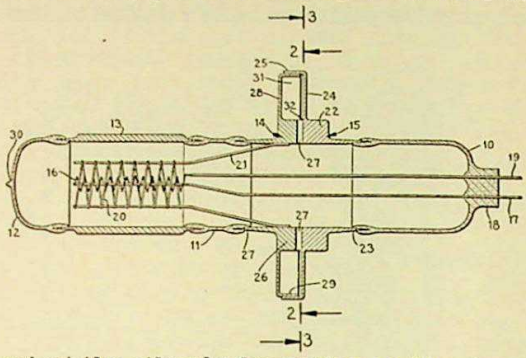
VACUUM TUBE SEAL AND METHOD

Charles V. Litton, Redwood City, Calif., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application February 6, 1942, Serial No. 429,746

6 Claims. (Cl. 250—27.5)

1. In a vacuum tube having vitreous sections in the tube envelope, means for joining two of said vitreous sections together comprising a metallic member sealed to each of said sections, each of said metallic members having a body portion adjacent the vitreous section, and a thin disc-like portion extending outwardly from the body portion, said disc-like portions having contacting surfaces which are sealed to each other, one of the body portions having abutments which



lie against the other body portion and having passages between said abutments leading from the evacuated vessel to the cavity between said disc-like portions.

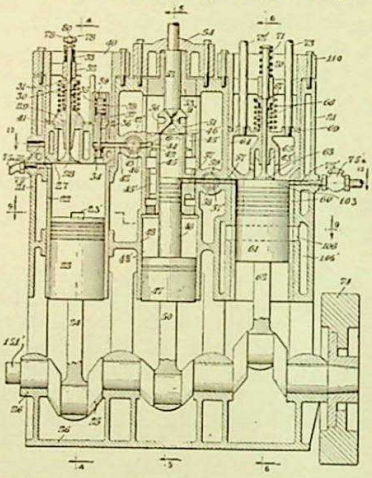
2,309,968

TWO-CYCLE, SUPERCHARGED, COMPOUND, DIESEL ENGINE

Francis Marburg, Odessa, Fla.

Application December 4, 1939, Serial No. 307,495

23 Claims. (Cl. 60—15)



1. In a two-cycle, supercharged, compound, Diesel engine, an air compressor unit, a high pressure power unit and a low pressure power unit, each of said units having a separate cylinder and piston and connecting rod and crank, a common crankshaft for said units, the cubic displacement of said air compressor piston and of said low pressure power piston being each at least twice as great as the cubic displacement of said high pressure power piston, the engine having an automatically controlled scavenging- and supercharging-air-overflow port between said air compressor unit and said high pressure power unit and having a high pressure power piston controlled gas- and air-overflow port between said power units and having an automatically controlled exhaust port for said low pressure power unit, the said units being arranged in series and in open communication with each other by way of said overflow ports during a portion of the air compressor unit compression stroke while said exhaust port is open simultaneously, the relative crank-angles of the engine and the air-pressure produced within said air compressor unit during the said portion of said compression stroke, and the said ports, being so arranged and controlled, that scavenging- and cooling-air is flowing from said

air compressor unit during the said portion of said compression stroke through said high pressure power unit and successively through said low pressure power unit and through said open exhaust port, producing powerful scavenging and internal air-cooling of the high pressure power unit, whereupon said gas- and air-overflow port is closed, producing successively high supercharging and additional, internal air-cooling of and compression within the high pressure power unit, whereupon said air-overflow port is closed and said high pressure power unit piston produces higher compression solely within the high pressure power unit, the engine having a separate port serving as a fuel-inlet port and terminating into the compression chamber of the high pressure power unit.

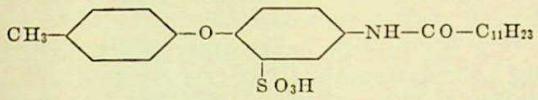
2,309,969

MANUFACTURE OF AMINODIPHENYLETHER SULPHONIC ACIDS

Henry Martin, Basel, and Hans Heinrich Zaeslin, Riehen, near Basel, Switzerland, assignors to the firm J. R. Geigy A. G., Basel, Switzerland

No Drawing. Application April 27, 1940, Serial No. 332,104. In Switzerland May 16, 1939
10 Claims. (Cl. 260—401)

4. The alkyl substituted, halogen-free aminodiphenylether sulphonic acid of the formula:

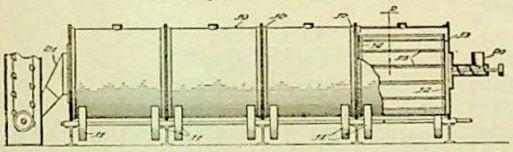


2,309,970

PROCESS OF MANUFACTURING CARBON BLACK

Charles E. McKinney, Borger, Tex., assignor to Continental Carbon Company, a corporation of Delaware

Application October 23, 1939, Serial No. 300,885
4 Claims. (Cl. 23—314)



1. The method which comprises introducing carbon black of a density of approximately 2½ pounds per cubic foot upon a moving surface which gradually increases its angle with the horizontal, in the absence of compressive forces, whereby relatively large agglomerations of carbon black are formed, and then causing successive portions of a mass of such particles to shift slowly by gravity over such moving surfaces, whereby the particles continually approach and exceed the angle of repose and move upon each other, progressively contacting the various points of the moving surface with a gravity pressed linear scraping surface, moving the moving surface with respect to the scraping surface during such contact, and continuing the process until the entire mass forms into substantially uniform particles of a density of above twenty pounds per cubic foot.

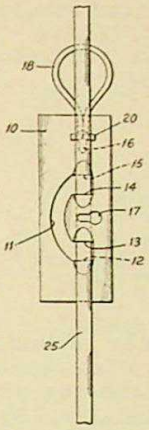
2,309,971

DROP WIRE SUPPORT

Ernest S. McLarn, Manhasset, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application April 11, 1940, Serial No. 329,061
3 Claims. (Cl. 174—175)

1. A support for an electric conductor comprising a single plate like body, means to hold a wire by friction against tensile strains in either direction comprising an opening in said body, a member extending into said opening over which a loop of the wire to be supported may be passed,



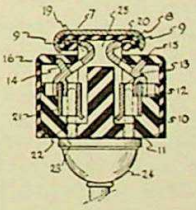
symmetrically disposed grooves in said member and other grooves formed in said body aligned therewith forming guideways to receive a wire loop from either side of the plate, and means to support said body.

2,309,972

CONNECTOR

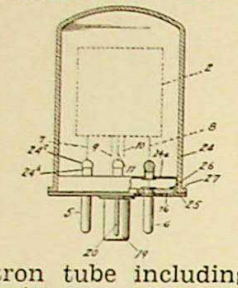
Joseph A. Messing, Detroit, Mich., assignor to Bulldog Electric Products Company, Detroit, Mich., a corporation of West Virginia

Application August 15, 1941, Serial No. 407,065
10 Claims. (Cl. 173—334)



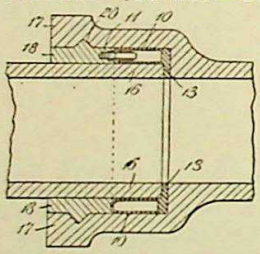
1. A connector for a slotted duct of the character described, having bus bars within and at opposite sides thereof, comprising a body formed to enter the duct slot and bear against a wall thereof and be held in position by the sides of the duct slot, contact strips formed with bus bar engaging or end tip portions, bearing portions pivotally mounting said strips on the body on axes parallel to the run of the duct, and cam lug portions, the strips being so formed that when they are in one position, close together, their tip portions, with the body, may be entered into the duct slot, so as to be between the bus bars and the sides of the slot, and when they are in another position, far apart, their tip portions are within the duct, and they engage the bus bars on their opposed facing surfaces, and a shell rotatably mounted on the body free of the duct, and formed with cams engaging the cam lug portions of the strips so as to move the tip portions of the strips when the shell is rotated, from their close-together slot entering position to their far-apart bus engaging position, with the strips being mounted on the body and connected to the shell in such a manner that their tip portions move rectilinearly towards the bus bars, to pierce them, the body providing a bearing for rotation of the shell.

2,309,973
ELECTRON DISCHARGE DEVICE
Carl F. Miller, Corning, N. Y., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Original application May 28, 1937, Serial No. 145,198. Divided and this application October 22, 1940, Serial No. 362,194
2 Claims. (Cl. 250—27.5)



1. An electron tube including a metal base member comprising a substantially flat central bottom with a surrounding perforated margin, the perforations being arranged in a symmetrical path around the center of the bottom, a central opening in said bottom closed off on one side by a hollow metal tubular body depending therefrom, electrical conductors passing through said perforations, a mass of fusible material located in each perforation closing off the space between the conductor and the edge of the perforation, said insulating material being sealed in a vacuum-tight manner to said edge and serving to support the conductor substantially centrally thereof.

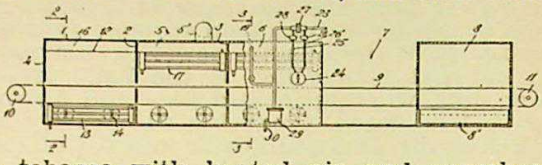
2,309,974
PACKING DEVICE
Thomas S. Miller, Rome, N. Y., assignor to Water & Sewer Equipment Corporation, Rome, N. Y., a corporation of New York
Application January 3, 1941, Serial No. 372,951
6 Claims. (Cl. 285—115)



1. A packing device comprising a hollow annular sleeve of flexible material capable of being inflated, the sleeve having a larger dimension longitudinally of its side walls than the thickness of the sleeve, an inflation valve positioned in one edge wall of the sleeve and projecting into the interior of the hollow sleeve with only a minor portion of the valve extending exteriorly of said edge of the sleeve, and a radial shoulder adjacent the other edge wall of the sleeve projecting inwardly toward the axis of the sleeve.

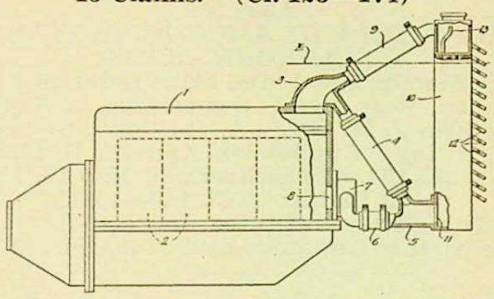
2,309,975
TREATMENT OF TOBACCO
John M. Moseley, Richmond, and Richard Page Hudson, Hanover County, Va., assignors to The American Tobacco Company, New York, N. Y., a corporation of New Jersey
Application May 6, 1942, Serial No. 441,898
5 Claims. (Cl. 131—140)

1. The process of treating cased and aged, air cured tobacco which comprises reducing the moisture content of the tobacco to approximately 10 percent by treating the tobacco with air at a temperature of 270 to 300° F., and then treating



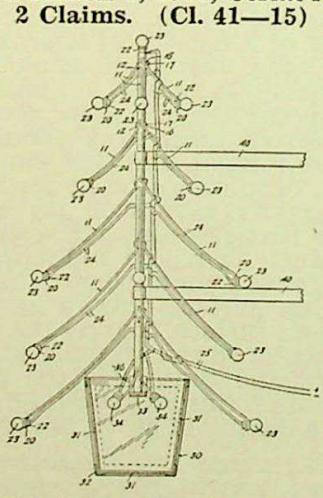
the tobacco with heated air and superheated steam at a temperature of 270 to 300° F.

2,309,976
TEMPERATURE CONTROL SYSTEM FOR INTERNAL COMBUSTION ENGINES
Fred E. Mueller, Chicago, Ill.
Application April 9, 1942, Serial No. 438,274
13 Claims. (Cl. 123—174)



1. The method of controlling the temperature of an internal combustion engine having a surrounding jacket which comprises the maintenance of an uninterrupted flow of liquid coolant through a high temperature circulation system of unvarying resistance extending exteriorly of the engine and through the jacket thereof, and the concurrent counterflow interchange with said liquid coolant only at or near the lowermost point in the circulation system of other liquid coolant in an always relatively static body contained in a communicating low temperature reservoir system.

2,309,977
ARTIFICIAL TREE
John H. Peroni, Freeport, N. Y.
Application March 5, 1941, Serial No. 381,795
2 Claims. (Cl. 41—15)



1. An artificial tree frame including a trunk having longitudinally spaced groups of angularly disposed transverse apertures, groups of branches carried by said trunk for movement thereof from an active position extending radially outward from the trunk to an inactive collapsed position extending longitudinally of the trunk, each group of branches consisting of a plurality of pairs, an

angulated terminal at the inner end of one branch of each pair extending through one of the transverse apertures of the trunk and protruding therefrom, and an eye at the inner end of the other branch of each pair fitted over the protruding extremity of the angulated terminal and secured thereon to fulcrum said pair of branches for swinging movement with reference to the trunk.

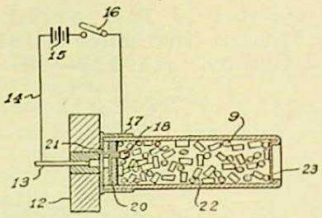
2,309,978

PROPELLENT FUEL ASSEMBLY

Carl D. Pratt, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware

Application June 21, 1940, Serial No. 341,666

18 Claims. (Cl. 102—39)



1. A propulsive type prime-mover actuating cartridge comprising in combination, a substantially solid self-combustive propellent-type deflagrating main fuel of such nature that its rate of burning increases with increase in pressure, and a deflagrating non-shock producing fuel kindling element comprising zirconium and an oxygen supplier compound as admixed ingredients in such proportions and amount as to be capable of directly igniting the said main fuel while developing gaseous products so gradually and in such small amount as not to materially increase the rate of pressure development of the said main fuel in a closed prime-mover system.

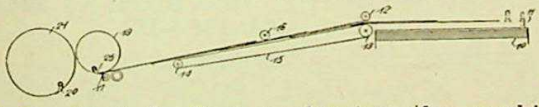
2,309,979

SHEET FEEDER

Howard A. Pritchard, Hiram, Ohio, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio, a corporation of Delaware

Application May 8, 1940, Serial No. 334,013

20 Claims. (Cl. 271—53)



1. In sheet feeding mechanism the combination of a variably moving sheet transfer member and separately mounted mechanism actuated by variable movement of said member at a constant speed ratio to control the advance of sheets thereto.

2,309,980

SPARKING PLUG

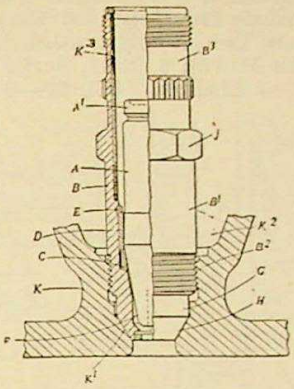
Frank Raymond Faber Ramsay, London, England, assignor to D. Napier & Son Limited, London, England, a company of Great Britain

Application March 5, 1941, Serial No. 381,910

In Great Britain March 13, 1940

9 Claims. (Cl. 123—169)

1. A sparking plug comprising a metal body, an insulator within the body, and a gas-tight gland including a washer and a ring between the insulator and the body and through one of the parts of which heat from the insulator can flow to the body, the part of the body which lies around and adjacent to the gland ring having a uniform external diameter with a screwthread thereon which runs from the end of this part of



uniform diameter towards a part which surrounds the gland.

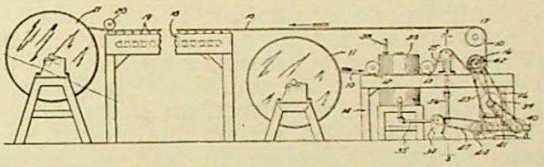
2,309,981

APPARATUS FOR COATING SHEET MATERIAL

Chester J. Randall, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application November 30, 1939, Serial No. 306,817

3 Claims. (Cl. 91—43)



3. An apparatus for applying liquid to the surface of sheet material comprising an applicator for said material, said applicator having a transversely rounded surface provided with a groove extending lengthwise thereof, means for drawing the material across said groove and in contact with the edges thereof on said applicator, said rounded surface having an undercut groove therein provided with an edge extending parallel with said groove and along the line where the sheet material breaks contact with the surface of the applicator, and means for supplying said groove with liquid so as to maintain the liquid continuously in contact with the material.

2,309,982

TEXTILE PRINTING WITH EMULSION CONTAINING DYESTUFF REACTANT

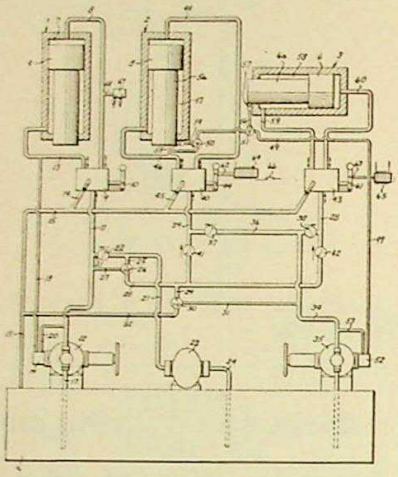
William B. Reynolds, Elmhurst, Long Island, and Sylvester A. Scully, Yonkers, N. Y., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio

No Drawing. Application May 27, 1940, Serial No. 337,488

6 Claims. (Cl. 8—71)

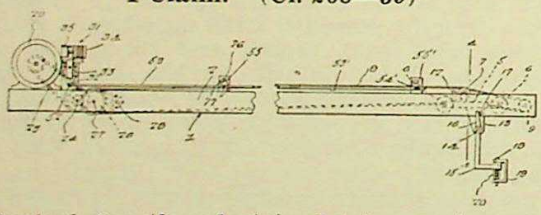
1. A textile printing composition comprising an emulsion the outer phase of which comprises a water-immiscible solution of a film-forming substance in a volatile water-immiscible organic solvent, and the inner phase of which comprises an aqueous fluid, the emulsion containing an azotizable amine, a nitrite, and a compound capable of coupling with the azotized amine, the amine, nitrite and coupling compound being at least colloidally distributed through the emulsion, the amine and coupling compound being in separate phases of the emulsion.

2,309,983
MULTIPLE CYLINDER PRESS
William J. Riddle, Pittsburgh, Pa., assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application March 6, 1941, Serial No. 382,054
4 Claims. (Cl. 60—97)



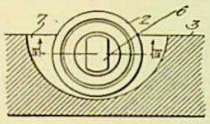
1. In a hydraulic system, a plurality of fluid motors operable independently of each other, a plurality of separate main pressure sources to respectively supply pressure fluid to said motors, an auxiliary fluid source adapted to supply pressure fluid to one or another of said motors and normally connected in parallel with one main fluid pressure source, means responsive to pressure in said one main source which disconnects said auxiliary source therefrom and connects it in parallel with the second main source, and means whereby pressure in said second main source operates means to by-pass the auxiliary source.

2,309,984
OVERHEAD DOOR OPERATING MEANS
Roy Rogers, Fowlerton, Ind.
Application November 15, 1939, Serial No. 304,635
1 Claim. (Cl. 268—59)



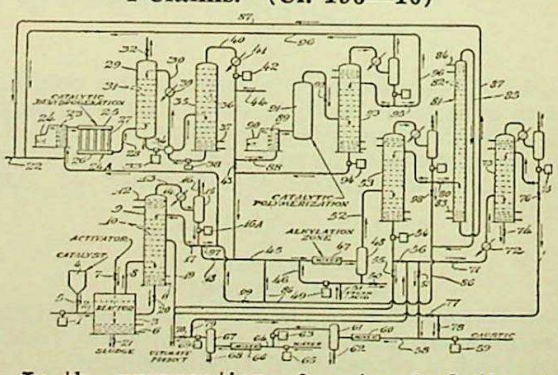
Control for the electric driving motor of an overhead door operating mechanism of the type comprising a carriage connected to the door and an elevated track along which the carriage moves toward either end of the track to fully open or fully close the door; said control comprising a reversing switch mounted at one end of the track and having an operating lever, a pair of tiltable levers mounted on the track in positions to be operatively engaged by said carriage as the carriage approaches corresponding extreme positions on the track, coordinating means operatively connected between said tiltable levers and the operating lever of the reversing switch whereby engagement of a portion of the carriage with either of said tiltable levers throws the operating lever of the reversing switch to the opposite position thereby deenergizing the motor and conditioning flow of current through the motor in the reverse direction, said tiltable levers being initially positioned at different angles whereby the return transit of the carriage effects resetting of both of the tiltable levers, a solenoid operated position setting switch connected between said reversing switch and its source of energy for the motor, and a manual momentarily operable switch connected between said source and said resetting switch whereby after initial operation of said manual switch and consequent operation of said carriage next operation of said manual switch effects stopping of the carriage in an intermediate position between said tiltable levers and conditions said motor for reverse operation.

2,309,985
TREADLE ROLL FOR LOOMS
John Ture Ruist, Goteborg, Sweden, assignor to SKF Industries, Inc., Philadelphia, Pa., a corporation of Delaware
Application October 25, 1941, Serial No. 416,563
In Sweden November 8, 1940
2 Claims. (Cl. 139—79)



2. A treadle roll for looms comprising an outer member and an inner member, said inner member having projecting side portions of non-circular form for fixing the member non-rotatably in the treadle, a central relatively fixed cylindrical portion of major diameter and a cylindrical portion of lesser diameter at each side of the central portion, seals closing the space between the outer and inner members at both sides of the roll, said seals being seated on the said cylindrical portions of lesser diameter and bearing against the sides of the said central portion and comprising also retaining elements interlocked with the outer member, a series of anti-friction bearing elements between the members, said outer and inner members having raceways for said elements, and said inner bearing member having a lubricant channel extending from an exterior surface thereof to the space between said seals.

2,309,986
MOTOR FUEL AND PREPARATION THEREOF
Robert F. Ruthruff, Chicago, Ill.
Application November 15, 1939, Serial No. 304,600
4 Claims. (Cl. 196—10)



1. In the preparation of motor fuel, the steps comprising subjecting a heavy naphtha to destructive isomerization, separating the destructively isomerized product into a relatively low boiling fraction and a relatively high boiling fraction having a maximum boiling point lower than the initial boiling point of said heavy naphtha, alkylating said relatively low boiling fraction with olefines, and blending the resulting alkylate with said relatively high boiling fraction.

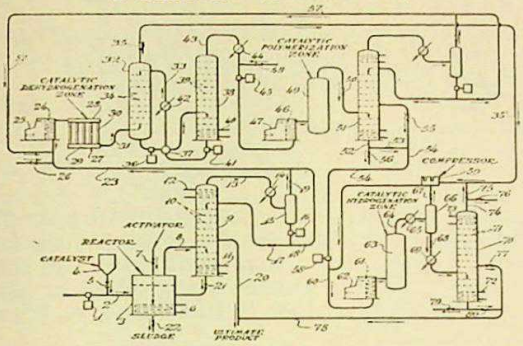
2,309,987

MOTOR FUEL AND PREPARATION THEREOF

Robert F. Ruthruff, Chicago, Ill.

Application November 15, 1939, Serial No. 304,602

4 Claims. (Cl. 196—10)



1. In the preparation of motor fuel, the steps comprising subjecting a heavy naphtha to destructive isomerization, separating the destructively isomerized product into a relatively low boiling fraction and a relatively high boiling fraction having a maximum boiling point lower than the initial boiling point of said heavy naphtha, dehydrogenating said relatively low boiling fraction with the production of olefines and hydrogen, polymerizing said olefines, hydrogenating the polymer produced and blending the resulting hydrogenated polymer with said relatively high boiling fraction.

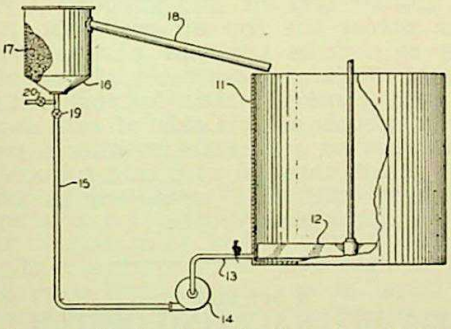
2,309,988

METHOD OF TREATING TITANIUM SULPHATE SOLUTIONS

Lonnie W. Ryan, Westfield, N. J., and Winfred Joseph Cauwenberg, Piney River, Va., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio

Application April 4, 1939, Serial No. 265,944

3 Claims. (Cl. 23—117)



1. The method of reducing a solution useful in the preparation of hydrolytically precipitated titanium dioxide and containing ferric iron, ferrous iron, titanium and sulphate ions in solution, without substantially increasing the instability of the solution, which comprises circulating the solution from the main body thereof through a body of reducing agent out of contact with the main body of the solution, the reducing agent being one which reacts exothermically with the solution, with the evolution of hydrogen, whereby the acidity is reduced and the ferric iron is reduced to ferrous iron, the circulation being conducted at a sufficiently high rate of speed so that no substantial local overheating or local change in acidity occurs in the body of reducing agent, and the effluent from the reducing agent is at a temperature not exceeding about 75° C., and continuing the circulation until all the ferric iron is reduced, and a portion of the titanium is in the titanous state.

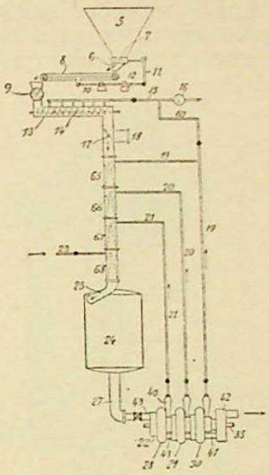
2,309,989

APPARATUS FOR COOKING GRAIN MASH

Bernard E. Saltzman, Lawrenceburg, Ind.

Application July 2, 1941, Serial No. 400,806

1 Claim. (Cl. 99—278)



In a mash cooking apparatus, in combination, means for mixing a predetermined quantity of meal and water to form a mash, a cooking tank, a plurality of heater injectors for conveying the mash to the tank, means for supplying the latter with steam at mash cooking temperature at the point where the mash enters the tank, a plurality of cooling separators connected to the tank to receive the mash therefrom to cool the mash gradually and separate the steam therefrom, a steam pipe connected between each of said separators and each of said heater injectors to supply the latter with discharged steam from said separators at progressively increasing temperatures progressively towards the said tank and means for discharging the mash from said separators.

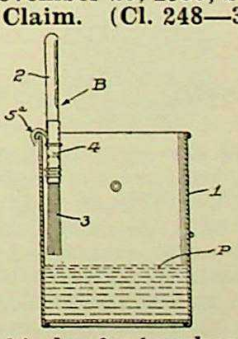
2,309,990

BRUSH HOOK

Jean J. Savi, New York, N. Y.

Application November 29, 1939, Serial No. 306,624

1 Claim. (Cl. 248—360)



In a bristle binder for brushes of the character described, said bristle binder provided with hook-like portion formed integrally therewith, said bristle binder adapted to be secured to the handle of the brush, and for securing the bristles of a brush, said integral hook-like portion adapted to suspend said brush on any suitable support.

2,309,991

UNIVERSALLY ADJUSTABLE LIGHT SOCKET

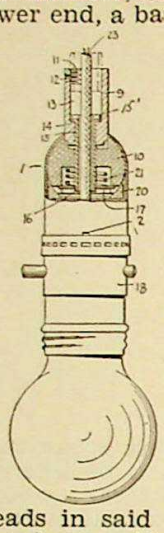
Nathan Rodney Schwartz, New York, N. Y.

Application October 21, 1941, Serial No. 415,911

5 Claims. (Cl. 173—344)

3. A swivel unit for an electric lamp having electric wires extending therefrom, comprising a housing, a ball in said housing, said ball hav-

ing a central vertical bore, a conductor in said ball, said conductor having a central vertical bore, said conductor comprising an upper member and a sleeve member, said upper member reduced near its lower end, said sleeve member engaging said upper member near the reduced end of said upper member, said sleeve member threaded at its lower end, a bar having a central



vertical bore, threads in said bore for engagement with the threads on said sleeve member, a compression spring on said bar to tensionally retain said conductor in frictional engagement in said ball, a passageway extending vertically through said conductor, spring and bar for the passage of electric wires therethrough, and means near the upper end of said conductor for attachment of the swivel unit to a support.

2,309,992

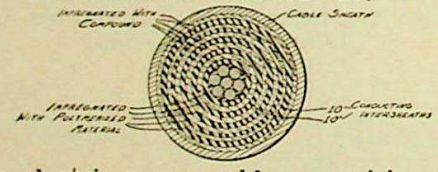
ELECTRIC POWER CABLE

Thomas Robertson Scott and John Krauss Webb, London, England, assignors to International Standard Electric Corporation, New York, N. Y.

Application November 29, 1938, Serial No. 242,902

In Great Britain December 24, 1937

3 Claims. (Cl. 174—25)



1. An electric power cable comprising at least one conductor, a sheath and fibrous insulating material between said sheath and said conductor, a portion of said insulation material being impregnated with cable compound and at least half of said insulating material being impregnated with a non-migratory insulating material which is insoluble in said cable compound, whereby the amount of cable compound required to fill said cable is reduced and migration of said cable compound is restricted, said insulating material comprising lappings of fibrous material impregnated with polymerized material interleaved with lappings of fibrous material impregnated with cable compound, the whole being permeated by cable compound.

2,309,993

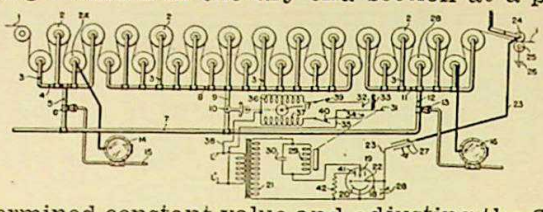
DRIER CONTROL

Rutcher Skagerberg, Penn Wynne, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pensylvania

Application August 13, 1938, Serial No. 224,734

9 Claims. (Cl. 34—41)

4. The method of controlling the drying process in a continuous drier which consists of dividing the drier into a plurality of sections and individually controlling the temperature of each section, by maintaining a physical condition of a drying medium in the dry end section at a pre-



determined constant value and adjusting the flow of said drying medium to the section just prior to the dry end section in response to the moisture content of the material being dried as determined immediately after it has left the drier.

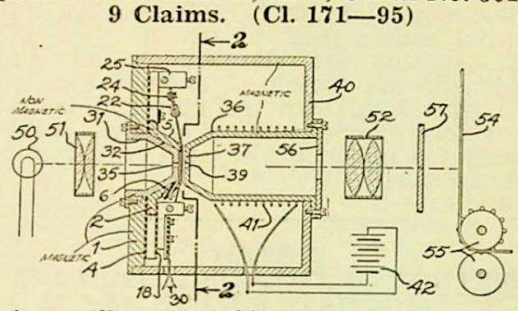
2,309,994

RIBBON OSCILLOGRAPH

Clifton R. Skinner, San Francisco, Calif.

Application October 28, 1939, Serial No. 301,789

9 Claims. (Cl. 171—95)



1. An oscillograph ribbon assembly comprising a foundation member of non-magnetic material, a hollow non-magnetic support arising from said foundation member and terminating in an upper surface, a shelf parallel to the extent of said foundation member cut into said upper surface and the interior wall of said support, a ribbon extending across the top of said support and returning to provide adjacent parallel legs on each side of the largest diameter of the interior space of said support, means for insulating the legs of said ribbon on one side of said support, said means having a surface forming a part of said shelf, means integral with said support, and means integral with said insulating means for accurately spacing said ribbon.

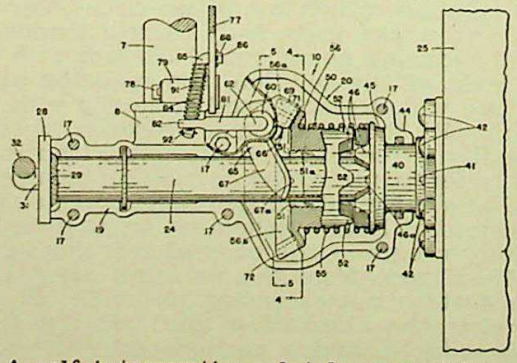
2,309,995

SELF-INTERRUPTING CLUTCH

Carl G. Strandlund, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Application November 26, 1938, Serial No. 242,449

29 Claims. (Cl. 192—62)



1. A self-interrupting clutch comprising driv-

ing and driven clutch members having clutch teeth formed so that movement of one member relative to the other causes said members to separate, said driven clutch member being biased for movement away from said driving clutch member so as to be normally out of driving engagement therewith, shiftable means engageable with said driven clutch member for normally holding the latter against movement, means for moving said shiftable means out of engagement with said driven clutch member and for moving the latter into engagement with said driving clutch member, said last means being yieldable to provide for automatic disengagement of said clutch by the relative movement between said members if driving engagement is established before said shiftable means releases the driven clutch member for movement with the driving clutch member.

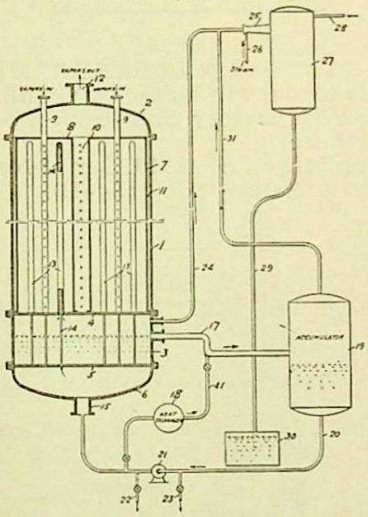
2,309,996

PROCESS AND APPARATUS FOR REGULATING THE TEMPERATURE OF CATALYTIC MASSES

Clarence H. Thayer, Wallingford, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application March 6, 1940, Serial No. 322,458

3 Claims. (Cl. 196—52)



2. The combination, with a catalytic converter comprising a reaction chamber and vertically disposed vapor inlet and outlet channels extending thereinto, of closed channels for the circulation of a heating medium in liquid phase; said last named channels comprising a closed chamber directly beneath the cracking chamber for containing a body of said medium, outflow tubes whose discharge mouths open into the second named chamber at a point near the top thereof and which extend upward therefrom to near the top of the cracking chamber and are thereat closed, inflow tubes extending through the second chamber and thence upward through the outflow tubes and opening thereinto near the latter's closed upper ends, and a flow passage communicating at its one end with said second chamber at a point below the top thereof and adapted to maintain a liquid level of said medium in said second chamber below the discharge mouths of said outflow tubes and communicating at its other end with the lower inflow ends of the inflow tubes, another flow passage connected with said second chamber at a point near the top thereof and above the liquid level therein and means to evacuate gas therethrough.

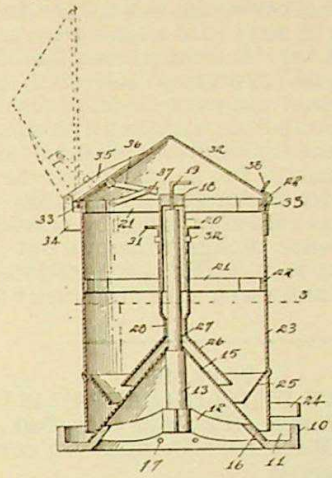
2,309,997

STOCK FEEDER

William B. Thieman, Albert City, Iowa

Application August 4, 1940, Serial No. 351,371

5 Claims. (Cl. 119—53.5)



1. A stock feeder, comprising a base including an annular trough and a central upright post, a conical spreader surrounding the lower end of said post, having its base terminating in the inner edge of said annular trough, a cylindrical upright casing, a pivot mounting the upper end of said casing on the upper end of said post with its lower end terminating in and above the bottom of said trough and around said spreader to permit the casing to be rotated about said post as an axis and at the same time to permit its lower edge to swing toward and from said conical spreader, the lower end of said casing being provided with a downwardly and inwardly inclined annular flange having its inner edge terminating a slight distance from said conical spreader to carry a large portion of the weight of the feed within the upper end of said casing, an auxiliary spreader above the first spreader, of smaller diameter than the first spreader, and means carried by said pivot for adjustably raising and lowering said auxiliary spreader relative to the first spreader.

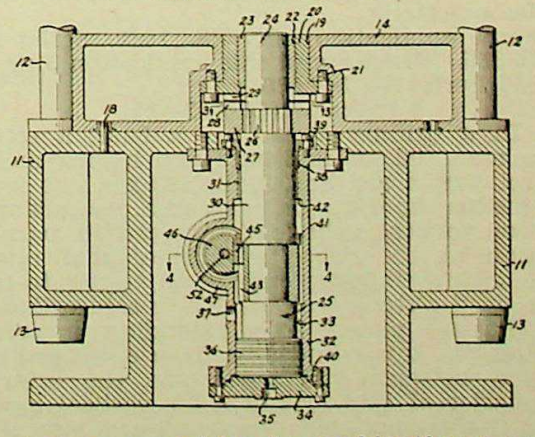
2,309,998

TURRET CONTROL

Warren R. Tucker, Dayton, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del., a corporation of Delaware

Application April 22, 1940, Serial No. 330,870

15 Claims. (Cl. 18—20)



1. A press comprising in combination a reciprocable press ram, a press bed, a rotatable support carried on said bed, said support being pro-

vided with a plurality of die receiving means and being operable to successively move said die receiving means into alignment with said press ram, a fluid operable plunger having its axis in alignment with the axis of rotation of said support and being operable selectively to lift said support off or to seat said support upon said bed, means responsive to movement of said plunger in lifting direction for rotatably connecting said plunger and said support, fluid operable means operatively connected with said plunger for rotating the same by a predetermined angle, and means responsive to a predetermined lifting movement of said plunger for making said fluid operable means effective, thereby causing one of said die receiving means to move out of alignment with said ram, while the next following die receiving means moves into alignment with said ram.

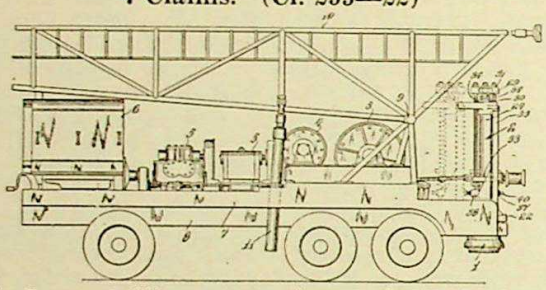
2,309,999

ROTARY DRILLING APPARATUS

Harry H. Vanderzee, Michigan City, Ind., assignor to Sullivan Machinery Company, a corporation of Massachusetts

Application May 23, 1939, Serial No. 275,235

7 Claims. (Cl. 255—22)



1. In a drilling apparatus, a base, hydraulic drill rod feeding means comprising a pair of hydraulic feed cylinders, means for mounting said feeding means on said base including means for guiding said feeding means for movement laterally, hydraulic transfer means on said base comprising a pair of hydraulic transfer cylinders for shifting said feeding means back and forth along said guiding means, and means for conducting liquid under pressure to said feeding means including fluid conducting elements extending through said transfer cylinders.

2,310,000

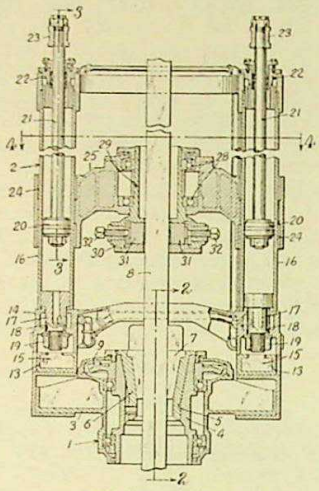
DRILLING APPARATUS

Harry H. Vanderzee, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts

Original application May 23, 1939, Serial No. 275,235. Divided and this application July 25, 1940, Serial No. 347,506

4 Claims. (Cl. 255—22)

1. In a drilling apparatus, a base, a rotary table mounted on said base and having means for rotating a rod line, hydraulic rod line feeding means mounted on said base comprising a pair of vertical cylinders arranged in parallel relation at the opposite sides of said rotary table with their lower ends in adjacency to said table, feed pistons reciprocable in said cylinders and having piston rods extending upwardly through the top cylinder heads, a crosshead extending between and guided on the exterior peripheries of said cylinders for vertical movement therealong, said crosshead overlying said rotary table and when in its lowermost position disposed in adjacency to the top of said table near the lower ends of said cylinders, connections between the upper ends of said piston rods and said sliding crosshead, and a chuck rotatably mounted on said crosshead for connecting the rod line to the crosshead for vertical movement



therewith with respect to said rotary table, said rotary table effecting rotation of the rod line as the latter is moved vertically with respect thereto with said chuck and crosshead.

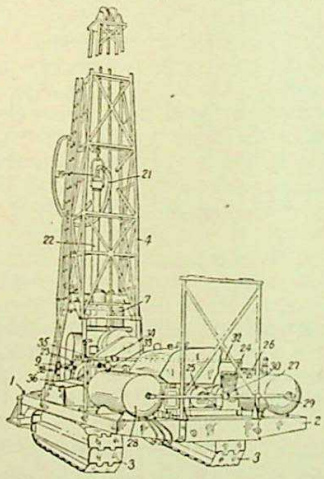
2,310,001

APPARATUS FOR CLEANING HOLES

John W. Haddock, Michigan City, Ind., assignor to Sullivan Machinery Company, a corporation of Massachusetts

Application March 27, 1940, Serial No. 326,249

1 Claim. (Cl. 255—19)



An apparatus for forming vertical or substantially vertical blast holes and preparing them for the reception of a blasting charge comprising, in combination, means including a drilling instrumentality attached to and operated by a tubular rod line for drilling a vertical or substantially vertical hole, means for conducting a cleansing liquid through the rod line to the bottom of the drill hole to wash away the cuttings from the vicinity of the drilling instrumentality during the drilling operation, means for discontinuing the flow of cleansing liquid through the rod line to the bottom of the drill hole when the drilling operation is completed, and means for suddenly discharging a large volume of compressed gaseous fluid through the rod line, while the drilling instrumentality remains in the hole and the cuttings and mud are in suspension in the liquid, to the bottom of the hole and at a pressure exceeding the static hydraulic head at the bottom of the

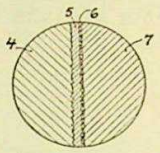
hole sufficiently substantially completely to blow out the cleansing liquid, cuttings and mud remaining in the bottom of the hole.

2,310,002

METHOD OF MAKING BLOCKING LAYER ELECTRODE SYSTEMS

Willem Christiaan van Geel, Hendrik Emmens, and Ludovicus Augustinus Lambertus Esseling, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application May 28, 1938, Serial No. 210,796
In Germany June 24, 1937
8 Claims. (Cl. 117—29)



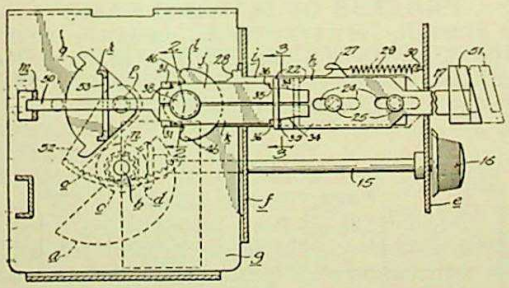
2. In the manufacture of a blocking layer electrode system having a carrier of a metallic material, the steps of applying to a surface of the carrier a metallic substance having a melting point below that of the metallic material to form a thin intermediate layer thereon, forming upon the free surface of the intermediate layer a continuous layer of a pulverulent material having a melting point above that of the metallic substance, and heating the composite body at a temperature which is between the melting point of the metallic substance and the melting points of the pulverulent material and the metallic material and at which there is no chemical reaction between the materials used.

2,310,003

TUNING MECHANISM FOR RADIO RECEIVING SETS

Albert S. Wells, Chicago, Ill., assignor to Wells-Gardner & Co., Chicago, Ill., a corporation of Illinois

Application January 6, 1941, Serial No. 373,263
6 Claims. (Cl. 74—10)



1. In a radio receiving set having a tuning device and means for operating the tuning device including a manual, a transmission unit between the manual and the tuning device comprising a pair of relatively slidable elements and a third rotatively adjustable element, a split bearing carried by one of the slidable elements affording support for the rotatively adjustable element, cam means, operable by relative movement between the slidable elements, acting upon the split bearing to tighten or loosen its engagement with the rotatively adjustable element to permit adjustment of the latter to a selected rotative position when the bearing is in loose condition, and an operating connection between the adjustable element and the tuning device.

2,310,004

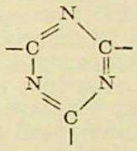
TRIAZINE-ALDEHYDE CONDENSATION PRODUCT

Gustave Widmer and Willi Fisch, Basel, Switzerland, assignors, by mesne assignments, to Ciba Products Corporation, Dover, Del.

No Drawing. Application March 11, 1936, Serial No. 68,355. In Switzerland September 28, 1935
9 Claims. (Cl. 260—9)

1. A molded article comprising a heat and pressure consolidated condensation product of melamine and formaldehyde as the essential reactants.

9. A molding composition capable of being molded under heat and pressure, comprising a cellulose filler and a heat and pressure consolidatable condensation product of, as essential reactants, an aldehyde and a triazine of the formula



wherein at least one of the free valencies is substituted by an amino group, the remaining free valencies being taken up by a member of the group consisting of hydrogen, hydroxyl, halogen, alkyl, aryl and aralkyl, the amino groups containing in toto at least two reactive hydrogen atoms, the filler amounting to about 19–55% of the total weight of filler and condensation product.

2,310,005

DRY SIZE AND METHOD OF MAKING

Ernest S. Wilson, Holly Oak, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application April 18, 1940, Serial No. 330,319
6 Claims. (Cl. 106—218)

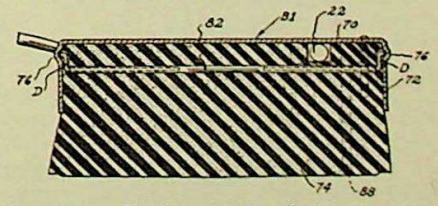
1. A method of making a high density dry size which comprises spray drying liquid or paste size in a blow chamber to provide a size having a moisture content of between about 1 and 10%, compacting the size particles to a density greater than about 20 pounds per cubic foot, reducing the size of the compacted particles, separating dust and fines from the reduced particles, returning dust and fines to the blow chamber, collecting particles of a size between about minus 20 and about plus 80 mesh, and returning particles greater than said size for further reduction.

2,310,006

FOUNTAIN CLEANING DEVICE

John A. Wisner, Baltimore, Md.

Application October 10, 1940, Serial No. 360,556
1 Claim. (Cl. 15—130)



A cleaning device comprising an applicator having a relatively thick sponge body, a base for receiving said sponge member, said base comprising a metallic member having a flange with outwardly extended indentations, and a spring within said sponge adapted to engage in said flange indentations whereby the spring will be resiliently held in a locked position.

2,310,007

METHOD FOR SETTING SNAP FASTENERS AND THE LIKE

Jerome G. Wolff, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Application May 16, 1939, Serial No. 273,926

4 Claims. (Cl. 218—29)

1. The method of installing a fastener member upon an imperforate sheet of supporting material by means of an attaching element, such member and element having portions which are adapted to be mutually interlocked with the sheet material firmly clamped between them, said method comprising the steps of disposing such a member and element on opposite sides of such a supporting sheet in coaxial relation, engaging the sheet within an area closely surrounding that to which the member and element will be applied, forcing the member and element together to cause a part of one to telescope in and to interlock with a part of the other and to clamp the sheet material firmly between them, the initial engagement of the sheet being firm enough to confine any stretching of the material during the subsequent forcing step substantially to that part of the sheet which will be clamped between the member and the element thereby to avoid wrinkling of the sheet material surrounding the assembled member and element, and finally releasing the material surrounding the assembled member and element.

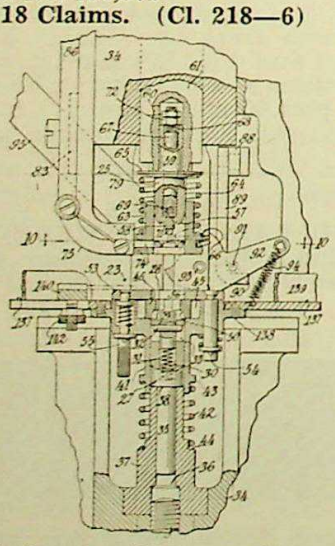
2,310,008

APPARATUS FOR SETTING BUTTONS AND THE LIKE

Jerome G. Wolff, Otto J. Huelster, and John E. Fagan, Waterbury, Conn., assignors to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Original application May 16, 1939, Serial No. 273,926. Divided and this application July 16, 1941, Serial No. 402,572

18 Claims. (Cl. 218—6)



12. In a fastener setting machine, a setting tool comprising a central part having its forward end shaped to cooperate with a fastener part, a sleeve slidably mounted upon said central part and having an unbroken ring-like forward end face and spring means for urging said sleeve to a normal position at which its forward end face is displaced ahead of the forward end of said central part, said spring being adapted to cause said sleeve to clamp a sheet of flexible material between its end face and the face of an opposing member with enough firmness to prevent the extension of any stretching of the held material beyond the clamped area prior to and while a fastener member is being applied to the material by said central part.

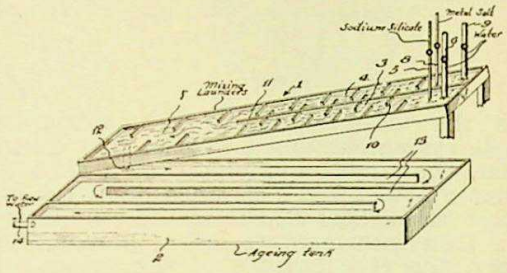
2,310,009

WATER PURIFICATION

Chester L. Baker, Penn Wynne, and Charles H. Dedrick, Drexel Hill, Pa., assignors to Philadelphia Quartz Company, Philadelphia, Pa., a corporation of Pennsylvania

Application September 21, 1938, Serial No. 231,052

8 Claims. (Cl. 210—23)



1. In the process of producing coagulation and clarification of raw waters with the use of a coagulation aid and a final coagulant, the steps which comprise mixing a dilute solution of sodium silicate with a dilute solution of a metal salt, capable of forming an insoluble silicate with said sodium silicate solution, in such proportions as to provide at least about one molecular proportion of sodium silicate to each molecular proportion of metal salt, aging said mixture until it is substantially in the state of incipient precipitation, then adding the resulting coagulation aid to a raw water to be clarified not later than the addition of a final coagulant.

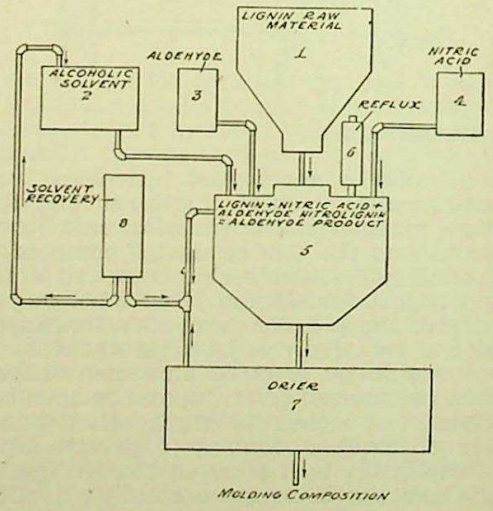
2,310,010

NITROLIGNIN MOLDING COMPOSITION AND PROCESS OF MAKING SAME

Harry Burrell, Newark, N. J., assignor to Ellis-Foster Company, a corporation of New Jersey

Application March 16, 1939, Serial No. 262,231

15 Claims. (Cl. 260—9)



10. A molding composition containing a bind-

er consisting essentially of a nitrolignin-aldehyde reaction product, and a cellulosic filler, said binder being obtained by reacting acid lignin with nitric acid dissolved in an alcohol selected from the group consisting of methanol, ethanol and pentanols, and an aldehyde selected from the group consisting of formaldehyde and furfural.

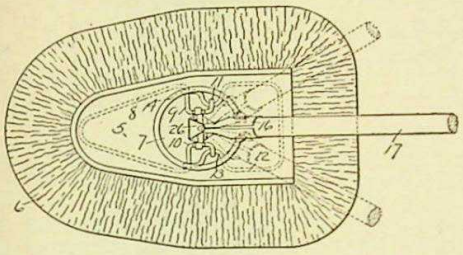
2,310,011

CONNECTOR FOR MOP AND BRUSH HANDLES

Henry Cave and Alfred L. Le Febvre, Hartford, Conn., assignors to The Fuller Brush Company, Hartford, Conn., a corporation of Connecticut

Application February 14, 1940, Serial No. 318,890

2 Claims. (Cl. 306—2)



1. A cleaning utensil comprising a frame having a pivot member as a part thereof, a handle, and a connecting member comprising a complete structure and including a plate having a groove extending across one face thereof to form a portion of a socket and having upturned ears extending from the opposite face thereof with a pivot bar secured at its opposite ends and extending in a direction transverse to said groove to said ears to receive said handle for pivotal attachment of the latter to swing in two planes transverse to each other, said complete connecting member also including a plate having a complemental groove to complete said socket to receive said pivot member for free pivotal action of the connecting member on said pivot member.

2,310,012

METHOD AND COMPOSITION FOR PRODUCING TEXTILE PRINTING EMULSIONS

Norman S. Cassel, Ridgewood, N. J., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio

No Drawing. Application May 27, 1940, Serial No. 337,494

4 Claims. (Cl. 8—71)

1. The method of producing a textile printing paste comprising an emulsion whose inner phase is an aqueous solution of a water-soluble compound which can be coupled with another compound to form an azo dyestuff which yields fast dyeings on cotton, and whose outer phase is a water-immiscible solution of an organic water-insoluble film-forming agent in a volatile water-immiscible organic solvent, from a water-soluble reactant and a relatively water-insoluble reactant which will react with the water-soluble reactant to produce the water-soluble compound, which comprises mixing an aqueous solution of the water-soluble reactant with a water-immiscible solution of an organic water-insoluble film-forming agent in a volatile water-immiscible organic solvent, which solution has distributed through it the water-insoluble reactant, to emulsify the water in the water-immiscible solution.

2,310,013

METHOD OF MAKING DIAZO PRINTING PASTES AND PRODUCT

Norman S. Cassel, Ridgewood, N. J., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio

No Drawing. Application July 22, 1939, Serial No. 285,969

6 Claims. (Cl. 8—71)

1. The method of diazotizing a diazotizable base which comprises conducting the diazotization while the base is in contact with water which forms the inner phase of a water-in-oil emulsion.

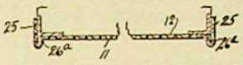
2,310,014

BLACK-OUT SHADE

Joseph S. Apfel, New York, N. Y.

Application January 1, 1942, Serial No. 425,277

3 Claims. (Cl. 160—35)



3. A blackout window shade adapted to be secured to a window frame which extends beyond the wall, said shade comprising a foldable body portion made of fabric, and hinged foldable flaps at the side of said body portions extending beyond the window frame and adapted to be bent over to embrace the side edges of said frame.

2,310,015

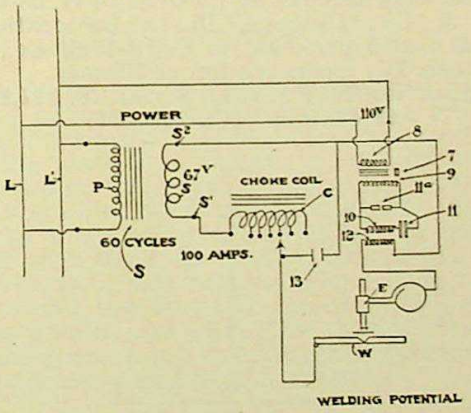
WELDING APPARATUS

George D. Agnew, Kingston, Ontario, Canada

Application October 2, 1941, Serial No. 413,339

In Canada June 6, 1941

1 Claim. (Cl. 219—8)



Welding apparatus comprising welding electrodes, a low voltage welding transformer for supplying welding current to said electrodes, a choke coil through which one terminal of the secondary of said transformer is connected to one of said electrodes, an induction coil winding through which the remaining terminal of the secondary of said transformer is connected to the remaining electrode to complete the welding circuit, a by-pass condenser having one terminal connected to the choke coil side of the welding circuit at a point between the choke coil and the electrode connected thereto, the remaining terminal of said condenser being connected to the opposite side of the welding circuit at a point between the transformer secondary and said induction coil winding, an auxiliary high voltage transformer, a second induction coil winding and a condenser connected in series with each other across the secondary of the high voltage transformer and a spark gap also connected across the secondary of the high voltage transformer in parallel with the second in-

duction coil winding and the last mentioned condenser, said second induction coil winding being disposed in inductive relation with the first mentioned induction coil winding.

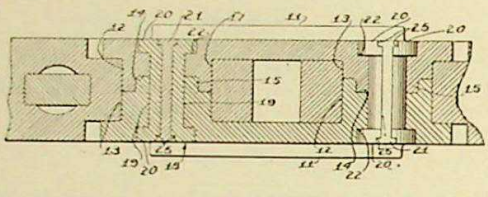
2,310,016

CUTTER CHAIN

Edward J. Doberstein, Blue Island, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application September 2, 1941, Serial No. 409,203

8 Claims. (Cl. 74—254)



1. In a cutter chain, a plurality of links, and means for pivotally connecting said links together comprising a split pin, and a locking key having opposite flattened sides adapted to engage the inner sides of opposite parts of said split pin, for holding said parts in spaced relation with respect to each other.

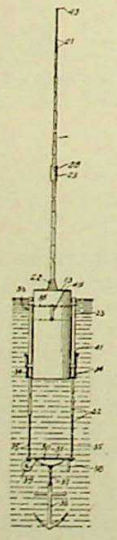
2,310,017

EMERGENCY TRANSMITTER

Hartman B. Canon, Deerfield, and Joseph L. Swallow, Lombard, Ill., assignors, by direct and mesne assignments, of one-half to Wells-Gardner & Co., Chicago, Ill., a corporation of Illinois, and one-half to Gard-Well Co., Inc., Chicago, Ill., a corporation of Illinois

Application May 5, 1941, Serial No. 391,818

13 Claims. (Cl. 250—17)



1. In an emergency radio transmitter, a container, an antenna associated therewith and extensible to variable distances from the outside therefrom, radio signaling means within the container and connected to the antenna, and a loading coil electrically connected to the signaling means attached to one of the telescoping sections and movable away from the container when the antenna is extended.

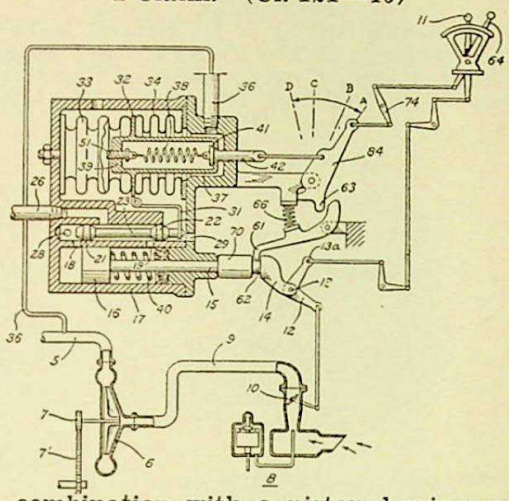
2,310,018

LOCKING MECHANISM FOR SERVOMOTORS

Richard Daalder, East Paterson, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Original application December 20, 1939, Serial No. 310,246, now Patent No. 2,243,626, dated May 27, 1941, which is a division of application Serial No. 247,120, December 21, 1938, now Patent No. 2,205,354, dated June 18, 1940. Divided and this application May 15, 1941, Serial No. 393,641

1 Claim. (Cl. 121—40)



In combination with a piston having an extension, and a groove in said extension, locking means therefor including a latch engageable with said groove, means constantly urging said latch to latching position, and manual means for restraining said latch, said manual means including a rockable member having a cam-surfaced toe-piece which engages and holds said latch in non-latching position so long as said toe-piece is in the central zone of its range of movement; said rockable member being so formed that manual movement of said toe-piece in either direction from its central zone will release said latch from the restraining influence of said toe-piece.

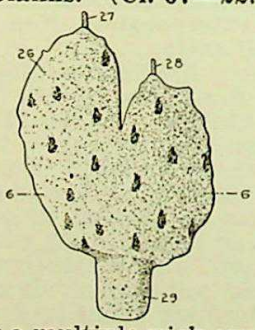
2,310,019

MULTIPLE WICK CANDLE AND METHOD OF MAKING SAME

Marcia C. Hamblet, New York, N. Y.

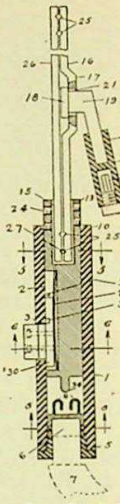
Application April 21, 1939, Serial No. 269,151

5 Claims. (Cl. 67—22.5)



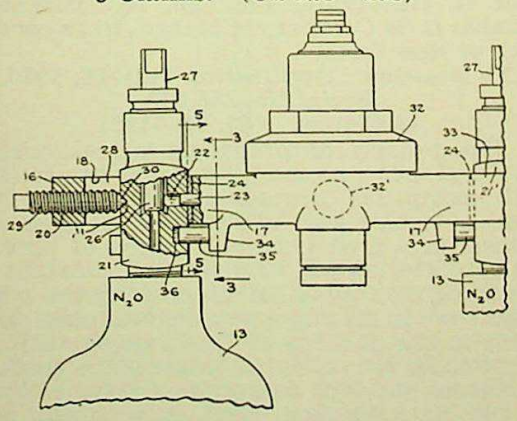
1. In making a multiple wick candle, the method which comprises forming a candle including a wick, wax disposed as a central portion therearound, and a shell of harder wax than the wax of the said central portion disposed around and integral with the central portion; arranging a plurality of candles of the kind described in proximity to each other and with the wicks extending approximately parallel; filling the space between the several candles with molten wax; and causing the molten wax to solidify.

2,310,020
ELECTRODE HOLDER
Michael Gallo, Baltimore, Md., assignor of fifty per cent to Howard E. Crook, Sr., Baltimore, Md.
Application March 3, 1941, Serial No. 381,438
2 Claims. (Cl. 219—8)



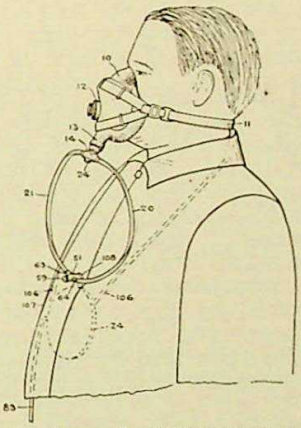
1. In an electrode holder of the class described, comprising a handle formed from insulating material, a blade retainer slidably mounted in one end of the handle and locked in position by a depressible locking electric switch means which projects through the said handle, elongated rectangular blades arranged parallel to each other and having transverse grooves adjacent their end portions symmetrically arranged for interchanging welding rod and a pivot pin and inserting same in said handle, one of said blades being straight and the other blade having its middle portion bent to form a recess through which a lever passes to operate a head attached thereto and providing a separating block for rotating movement with its transverse edges contacting portions of the inner surfaces of the blades to force same apart and loosen the welding rod, a metal plug contactor element inserted in the other end of said handle and connected with an electrical cable.

2,310,021
DISPENSING GASES
Jay A. Heidbrink, Minneapolis, Minn., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application April 14, 1941, Serial No. 388,448
5 Claims. (Cl. 128—188)



1. In a gas administering machine having yokes and nipples therein and passages leading from said nipples for the delivery of a plurality of indicated gases, means for connecting tanks of said gases in said yokes and to said nipples, comprising projections formed on the yokes, the projection on each yoke being differently positioned relative to the gas conducting nipple thereon from the position of projections in all other yokes, and depressions formed on the necks of the several tanks containing the indicated gases, the several depressions on each tank of said indicated gases corresponding in shape and position with the projections on the yokes for receiving the tanks of the several indicated gases, whereby a tank of an indicated gas can be secured only to the yoke and nipple leading to the passageway for delivering that indicated gas.

2,310,022
OXYGEN DELIVERING APPARATUS OF THE DEMAND TYPE
Jay A. Heidbrink, Minneapolis, Minn., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application April 10, 1941, Serial No. 387,936
9 Claims. (Cl. 128—202)



1. A device for administering oxygen and excluding nitrogen comprising a mask, a rebreathing compartment having gas-flow connection with the mask, said compartment comprising a rigid shell having parallel face walls, a perforate cover and a flexible sheet held gas-tight upon the edges of the shell by the cover said sheet being folded upon itself, so that on exhalation it will contact one of said face walls and upon inhalation it will substantially contact the other of said face walls, said connection between the mask and the rebreathing compartment opening from the latter below said flexible sheet.

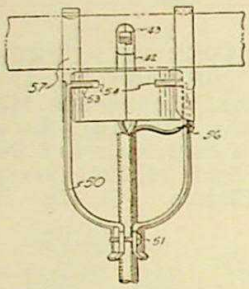
2,310,023
SET STABILIZED PLASTER
Harry F. Gardner, Snyder, N. Y., assignor to Certain-teed Products Corporation, New York, N. Y., a corporation of Maryland
No Drawing. Application August 29, 1941, Serial No. 408,815
10 Claims. (Cl. 106—110)

1. An hydraulic setting material comprising a base of calcined gypsum having admixed therewith an auxiliary product comprising calcined gypsum in set condition and Portland cement in set condition.

2,310,024
ELECTRICAL DISTRIBUTION SYSTEM
William H. Frank and Arthur S. Bassette, Detroit, Mich., assignors to Bulldog Electric Products Company, Detroit, Mich., a corporation of West Virginia
Application July 28, 1941, Serial No. 404,288
2 Claims. (Cl. 173—361)

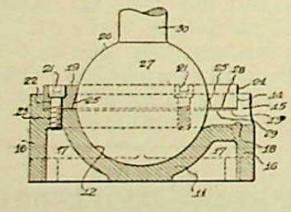
1. For use with a hollow tube containing bus

bars and having an elongated narrow slot providing an entrance into the tube, a connector comprising an insulating body adapted to be disposed outside the tube and having a neck projecting therefrom adapted to be disposed within and remain within the tube slot and so formed that any transverse diameter is smaller than the width of the slot, the connector having a wide but thin head provided with contacts on its most widely spaced surfaces for engaging the bus bars of the tube when the head is within the tube, the head being thin enough so that it may enter the tube or leave it thru the slot, and being wide enough so that when the head is within the tube,



and positioned to be transverse of the slot so as to be non removable from the tube, the head contacts will engage the bus bars, the connector containing conducting straps within the body and having ends formed for electrical contact with terminals of a conductor of a branch cord outside the connector, the straps making electrical contact with the head contacts, and a support bracket comprising hooks detachably but rigidly interlocked to the connector body and formed to embrace the tube for anchoring the connector to the tube and for transferring any load on the connector body, from the cord, to the tube.

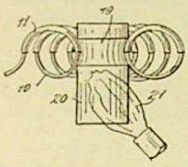
2,310,025
UNIVERSAL VISE
James B. Giern and Anders P. Anholtt, Detroit, Mich.
Application May 1, 1941, Serial No. 391,264
4 Claims. (Cl. 287—12)



1. A device of the character described comprising a base having a socket and an internal annular recess surrounding said socket, a work holder having a spherical portion seated in said socket, a C-shaped clamping member having an internal beveled surface secured in said recess with said beveled surface engaging said spherical portion, and circumferentially spaced screws for clamping said clamping member to said base whereby said clamping member will expand into engagement with said recess.

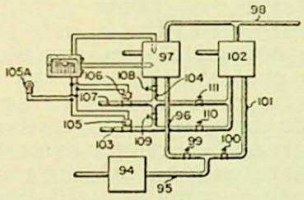
2,310,026
THERMOPILE
Frank R. Higley, Cleveland Heights, Ohio, assignor to The Bryant Heater Company, Cleveland, Ohio, a corporation of Ohio
Application November 14, 1940, Serial No. 365,673
4 Claims. (Cl. 136—4)

1. A method of making a thermopile which comprises helically coiling a length of wire, coating one longitudinal half of said coil with a metal different from that of the wire to form two junctions of coated and uncoated wire approximately 180° apart for each convolution of the coil, bending the coil either before or after the applica-



tion of the coating to form a hollow ring with corresponding junctions at the inner border of the ring and providing means for applying heat to said last named junctions, the remaining portions of the convolutions being left free and unobstructed to facilitate the rapid dissipation of heat.

2,310,027
CONTROL SYSTEM
Thomas R. Harrison, Wyncote, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 5, 1939, Serial No. 288,498
9 Claims. (Cl. 236—1)

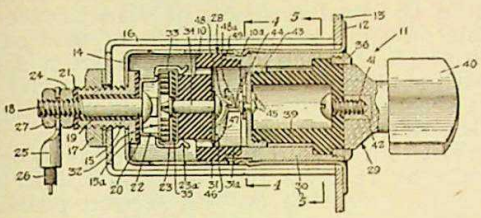


5. In a control system for acting upon a material, means for supplying a heating agent, means for supplying a cooling agent, an instrument responsive to the temperature of said material and the rate of temperature change thereof, means operated to one position upon the attainment of a predetermined value of the temperature and a predetermined rate of change thereof and to another position upon the attainment of another value of temperature and a different rate of change, and an operating connection between said last mentioned means and said supply means.

2,310,028
CANNED FOOD PRODUCT
Elmer G. Gustavson, Chicago, Ill., assignor to Quaker Oats Company, Chicago, Ill., a corporation of New Jersey
No Drawing. Application July 26, 1939, Serial No. 286,623
10 Claims. (Cl. 99—182)

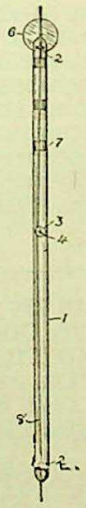
1. The process of preparing cereal, whereby its natural color, aroma, and flavor are retained, which comprises precooking the cereal with water, enzymatically digesting the mass with diastase for a predetermined period of time and at a predetermined temperature, heating the mass to destroy the diastase, cooking the mass a second time in an atmosphere containing carbon dioxide in the absence of free oxygen, introducing the mass into a sulfur insensitive container in an atmosphere of carbon dioxide whereby oxygen is excluded from contact with the mass, hermetically sealing the container, sterilizing the sealed container and contents at elevated temperatures and pressures, and rapidly cooling the same.

2,310,029
CIGAR LIGHTER
James T. Kline, Fairfield, Conn., assignor to Automatic Devices Corporation, Bridgeport, Conn., a corporation of Connecticut
Application February 9, 1939, Serial No. 255,424
10 Claims. (Cl. 219—32)



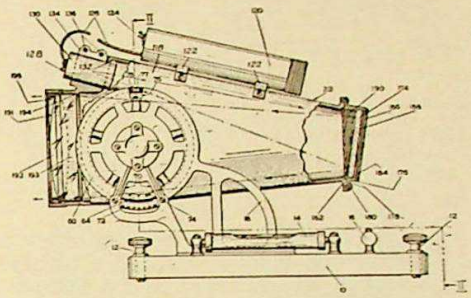
1. In an electric cigar lighter, a holder comprising a cylindrical socket; a cylindrical igniting unit removably mounted within the holder; a heating element carried by the igniting unit; a member, including a handle by which the member and unit can be manipulated, rotatably mounted on the igniting unit and extending into said unit; interengaging detent means carried by the cylindrical socket and igniting unit for holding the igniting unit against rotation in said socket when said member is operated; means for yieldingly urging said member to a normal open-circuit position; means responsive to rotation of said member out of normal position to complete a circuit through the heating element; and heat-responsive means adapted to hold said member in closed-circuit position, said heat-responsive means releasing said member for movement to an open-circuit position when the heating element has attained a predetermined temperature.

2,310,030
BOBBER FOR FISH LINES
Edward H. Kruse, Fort Wayne, Ind.
Application July 12, 1941, Serial No. 402,159
4 Claims. (Cl. 43—49)



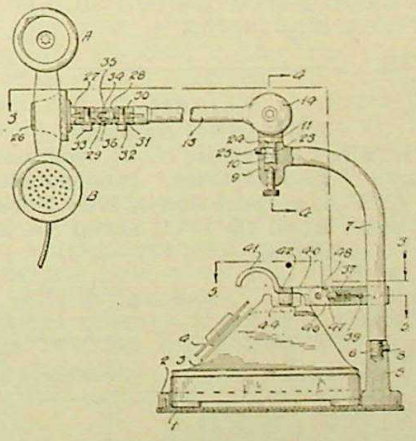
1. A bobber for fishing consisting of an elongated thin float of substantially uniform diameter throughout its length, line guides secured to the float one adjacent each end thereof provided with guide openings that are alined with each other, a line fastener located on the float between said guides, and an indicator consisting of a thin flat disk disposed on the top of said float in a vertical plane transversely with respect to the stem of the adjacent guide.

2,310,031
COLLIMATOR
Gunne Lowkrantz, Binghamton, N. Y., assignor to Link Aviation Devices, Inc., Binghamton, N. Y., a corporation of New York
Application May 15, 1941, Serial No. 393,644
7 Claims. (Cl. 240—1)



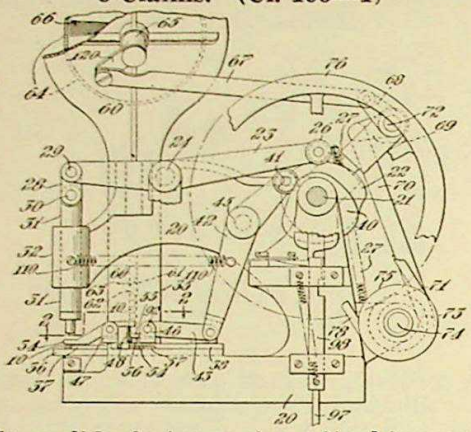
1. A collimator which comprises, in combination, a collimator tube, a plane reflecting surface adjacent one end of said collimator tube, an objective lens adjacent the other end of said collimator tube, and built-in means for providing an approximately point source of light positioned at one side of said collimator tube and adjacent the same end as said objective lens, the reflecting surface, objective lens, and light source means being formed and arranged to take light from a focus at the light source means and to redirect that light externally of the collimator tube as a relatively large bundle of parallel rays.

2,310,032
TELEPHONE FIXTURE
Roderick R. Mathieson, Detroit, Mich.
Application December 4, 1940, Serial No. 368,468
5 Claims. (Cl. 179—149)



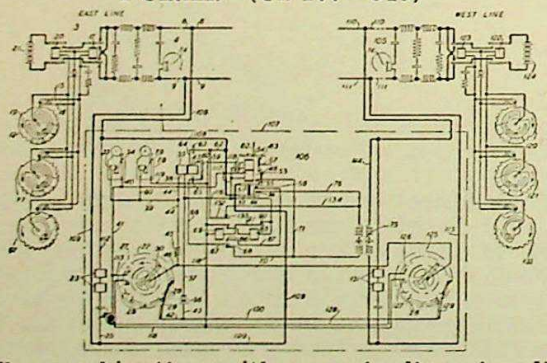
1. A fixture for a telephone set including a dialing unit, a switch mechanism for connecting the same in an electric circuit, and a united transmitting and receiving unit electrically connected in said circuit, comprising a base having an upstanding peripheral flange within which the bottom of the dialing unit practically fits, a substantially rigid vertical standard carried by the base and having an offset end portion, a coupling element rotatably supported by said offset end to turn on a vertical axis, an arm having one end attached to the coupling element to turn on a horizontal axis, means on said last named arm for supporting said transmitting and receiving unit, means forming part of said arm providing for rotation and angular displacement of said transmitting and receiving unit to vary the position of the same in either a vertical or horizontal plane.

2,310,033
SLIDE FASTENER STOP ATTACHING MACHINE
Lorenz F. Muther, Newton Center, Mass.
Application July 25, 1940, Serial No. 347,439
5 Claims. (Cl. 153—1)



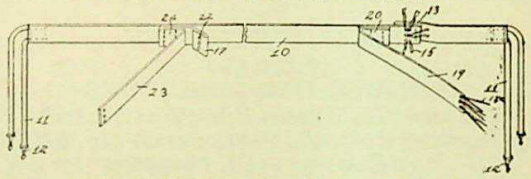
1. In a slide fastener stop-attaching machine having a raceway for feeding stops and stop-clenching means for securing the stops to stringers, a slidable member movable in a fixed path from a position adjacent to the end of said raceway toward and away from the stop-clenching means, said slidable member having a portion for receiving a stop from the end of the raceway, a positioning finger extending across the stop-receiving portion so as to engage a stop delivered from the end of the raceway and hold said stop on the stop-receiving portion, said finger being constructed and arranged to move from stop-holding position to a position clear of said fixed path in response to movement of said slidable member toward said stop-clenching means, and means for moving said slidable member from stop-receiving position to a position wherein the stop-receiving portion is adjacent to the stop-clenching means.

2,310,034
SIGNALING SYSTEM
Albert H. Miller, Bayside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 15, 1941, Serial No. 388,590
1 Claim. (Cl. 177—340)



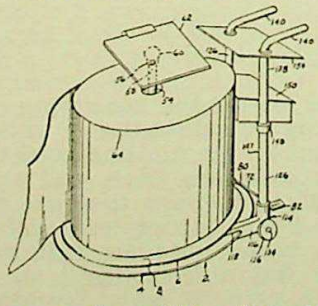
The combination with a main line signaling system suitable for use in train dispatching and a branch line system to be connected to said main line system, said main line system having connected therein a selector, two signaling devices operable to send answer-back signals over said main line signaling system, a two-winding relay operable on a first position of said selector to answer-back connect one of said signaling devices to said main line system and operable on a second position of said selector to partly make ready a circuit to answer-back connect the other of said signaling devices to said main line system and means to operate said selector, said signaling devices and said two-winding relay, of a mechanical latching relay operable on a first position of said selector to latch-connect said systems together and complete an answer-back circuit for the signaling device selected on the first position of said selector and operable on the second position of said selector to release the branch line system from connection with said main line system and partly complete a second answer-back circuit involving the signaling device selected by said selector on the second position of said selector, means to operate said latching relay, a pair of sequentially operated relays operating on the second position of said selector and when said latching relay releases the branch line from connection with said main line, means to operate said sequentially operated relays, the first relay of said pair of sequentially operated relays operating to complete the second answer-back circuit and the second relay of said pair operating to open the operating circuit of the first relay of said pair, and said pair of sequentially operated relays operating to intermittently close and open the second answer-back circuit to make the answer-back signal sent on release of the connection between said systems distinguishable from the answer-back signal sent on connection of said systems.

2,310,035
SAFETY BELT
Laura E. Mingus, Des Moines, Iowa
Application April 6, 1942, Serial No. 437,745
3 Claims. (Cl. 128—134)



1. A safety belt for holding patients in bed, comprising a main belt member, means at each end for detachably securing it to the under side of a bed, a second belt member secured at one end to the main belt member, a third belt member in position overlapping the second belt member and secured to the main belt member at the end opposite from the secured end of the second belt member, and flexible tapes for tying the free ends of said second and third belt members to the main belt member.

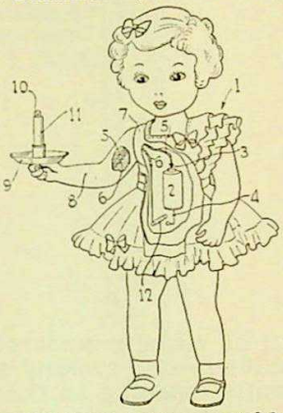
2,310,036
CARPET AND FLOOR COVERING TURNTABLE AND THE LIKE
Jesse C. Owens, Los Angeles, Calif.
Application May 23, 1941, Serial No. 394,877
5 Claims. (Cl. 242—55.2)



1. In the apparatus of the class described com-

prising a pair of plates disposed one over the other, a center bearing means provided in one of said plates for permitting its turning, a plurality of roller means mounted at the under side of the upper plate and disposed at the surface of the bottom plate for reduction of the friction therebetween, a plurality of roller means mounted at the underside of said bottom plate for facilitating the moving and shifting of the apparatus, a pair of elevating means inter-connected together and positioned at the underside of said bottom plate for elevating said rollers and for braking and holding said apparatus in stationary position, and a regulating means connecting said last mentioned means for controlling and regulating their position and for tripping same off its elevated position when not in use.

2,310,037
DOLL
Esther W. Reno, New York, N. Y.
Application September 9, 1941, Serial No. 410,126
4 Claims. (Cl. 46—119)



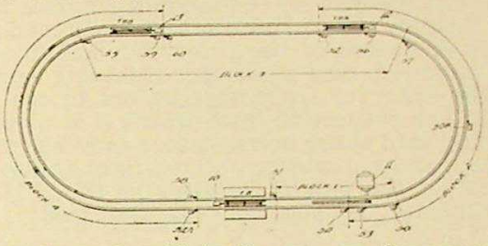
1. A doll having an arm movable with respect to a shoulder, a hand upon said arm, a miniature candle-stick detachably supported by said hand, a miniature electric bulb associated with said candle-stick, a battery within said doll, an electric circuit connecting said battery and said bulb which runs through said body, shoulder, arm and hand to said candle-stick and thence through said candle-stick to said bulb, and switching means associated with said shoulder and said arm whereby said circuit may be made and broken by moving said arm.

2,310,038
SULPHAMIC ACID COMPOUNDS AND PROCESS OF MAKING SAME
John B. Rust, Verona, N. J., assignor to Ellis-Foster Company, a corporation of New Jersey
No Drawing. Application January 25, 1940, Serial No. 315,593
5 Claims. (Cl. 260—500)

5. A reaction product of the general formula $(A—CH_2NHSO_3)_nM$, wherein A is a nitrogen-containing group joined to methylene through an N-atom and selected from the class consisting of primary amines of the benzene series, monocyclic N-heterocyclic amines and urea, M is an ion selected from the group consisting of metals, ammonia and amines, and n is an integer corresponding to the valence of M.

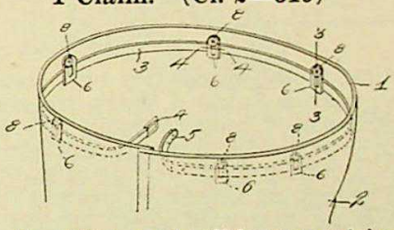
2,310,039
INTERLOCKING INDICATING AND CONTROL DEVICE FOR AMUSEMENT PARK RIDES
William B. Schmidt, Ted B. Morse, and Marshal H. Rieves, Chicago, Ill.
Application August 2, 1940, Serial No. 349,854
10 Claims. (Cl. 246—32)

1. In an amusement park ride, a loading platform, a trackway leading therefrom, said trackway being divided into a plurality of blocks, trains on said trackway arranged to travel through said blocks successively, means in each block for stopping a train therein, train operated means for testing the condition of a block as the train approaches the same, means con-



trolled through said testing means for operating said stopping means to stop the train when the block tested is occupied, and means controlled by said latter means for operating the stopping means in each block to the rear of said train and between said tested block and said loading platform.

2,310,040
BELT ATTACHING MEANS FOR GARMENTS
Julius Schneider, Omaha, Nebr.
Application December 3, 1941, Serial No. 421,502
1 Claim. (Cl. 2—319)



In a belt, slides, each slide comprising a body member having spaced vertical slots forming a vertical center bar over which the belt is fed when passed through the vertical slots, a button hole vertically disposed in the body member and having its lower end extending downwardly into the upper end of the center bar and its upper end terminating above the slots and the upper side of the belt a distance equal to slightly more than the radius of a button carried by the garment and adapted to be passed through the button hole, said button having a connection to the garment which connection engages the upper end of the button hole when the lower side of the button is in engagement with the upper edge of the belt, whereby the body member will be positively held on the button and against upward displacement.

2,310,041
COMPASS STRUCTURE
Burl E. Sherrill, Peru, Ind.
Application March 6, 1941, Serial No. 381,935
1 Claim. (Cl. 33—225)

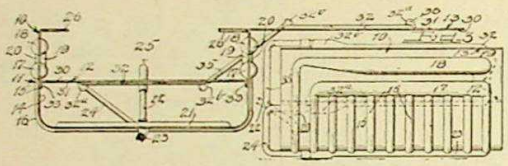
A magnetic compass comprising a housing having a liquid therein, a post centrally located within said housing, a compass member rotatably supported by said post, and compensating means for

said compass member comprising end members at opposite corresponding ends of the housing and providing cylindrical projections, spherically shaped compensators rotatably mounted in the open ends of the projections with substantial portions thereof exterior of the projections to provide finger engaging portions whereby said compensating means may be manually rotated, means for rotatably supporting one of said compensators in the open end of the projection within which it is mounted, and means for rotatably supporting the other of the compensators in the open end of the projection with which it is mounted, whereby said other compensator may be rotated through an axis substantially at right angles with respect to the axis of rotation of the first said compensator, substantially as described.

2,310,042
EVAPORATOR

Frederick A. Smith, Waukegan, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan

Application July 19, 1941, Serial No. 403,134
8 Claims. (Cl. 62—126)

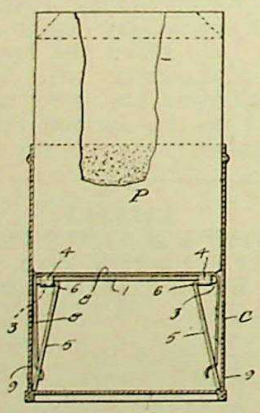


1. A sheet metal evaporator unit comprising a U-shaped part defining a sharp freezing chamber, a refrigerated shelf bridging the legs of the U-shaped part, and a laterally extending refrigerated plate mounted on one leg of the U-shaped part and extending laterally outward therefrom, said flat plate and said shelf having substantially identical constructions.

2,310,043
RISING SUPPORT

Hugh Starks, Grand Junction, Colo., assignor of one-fifth to Silmon L. Smith and one-fifth to Charles M. Holmes, both of Grand Junction, Colo.

Application March 19, 1941, Serial No. 384,183
4 Claims. (Cl. 206—41.1)

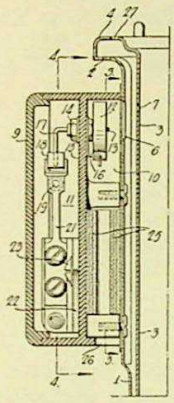


1. As a new article of manufacture, a support for a package when lifted within a can comprising an elongated member for placement within the can between the bottom wall thereof and the applied package, returned tabs at the opposite end portions of the member and in close contact therewith from below and extending a material distance inwardly from the ends of the elongated member, means for maintaining the tabs in such positions, props in swinging connection with the inner extremities of the tabs, said props being closely folded one with respect to the other and with respect to the member when the device is initially applied within the can between the bottom of the can and the package therein, and means for swinging the props away from the member and away from each other to raise the member when the package within the can is lifted.

2,310,044
THERMOSTATICALLY CONTROLLED COOKING APPARATUS

Robert O. Stevenson, Philadelphia, Pa., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application March 15, 1941, Serial No. 383,636
20 Claims. (Cl. 219—43)



1. An electrical cooking apparatus, comprising an electrically heated cooking chamber having a steam outlet opening in the wall thereof, a steam trap external to said chamber and adjacent to said opening, thermostatic means within said trap responsive to the temperature of the trapped steam, means operable by said thermostatic means for controlling the operation of said cooking chamber, and means in said trap for recovering condensate of the trapped steam.

2,310,045
GUANYLUREA SALTS

Jack T. Thurston, Stamford, and Robert C. Swain, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application December 13, 1940, Serial No. 369,952
5 Claims. (Cl. 260—501)

2. A guanylurea salt having the following general formula:

$$R-COOH.H_2N-\underset{\underset{NH}{\|}}{C}-NH-\underset{\underset{O}{\|}}{C}-NH_2$$

where R is a member of the group consisting of an alkyl having at least 7 carbon atoms, an aryl and a cycloaliphatic radical.

2,310,046
METHOD OF REFINING SULPHATE TURPENTINE AND TALL OIL

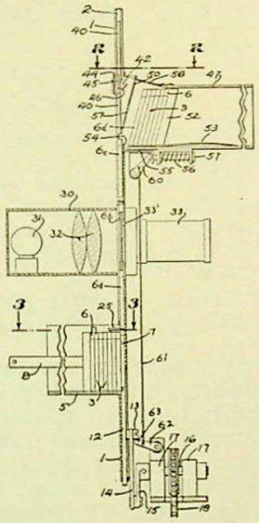
Floyd Trimble, Chicago, Ill., assignor to The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey

No Drawing. Application August 3, 1940, Serial No. 351,233
19 Claims. (Cl. 260—97.5)

8. An integrated method for simultaneously

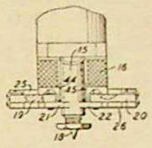
refining sulphate turpentine and tall oil, which includes intimately mixing crude sulphate turpentine and crude tall oil with a liquid furan derivative substantially immiscible with the mixture of said oils but capable of selectively dissolving the color and odor producing bodies thereof, said furan derivative being selected from the group consisting of furfural and a reduction product of furfural, permitting the mixture to separate into an upper layer composed substantially of turpentine, tall oil and a small proportion of dissolved furan derivative and a lower layer composed substantially of furan derivative with dissolved color and odor producing bodies, separating said upper layer and removing therefrom the dissolved furan derivative and turpentine whereby to obtain a mild-odored, light-colored refined tall oil.

2,310,047
PROJECTION APPARATUS
Carl Waldeyer, San Francisco, Calif.
Application April 4, 1941, Serial No. 386,809
7 Claims. (Cl. 88—28)



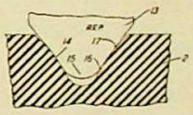
1. Means for sequentially feeding horizontally stacked image carrying slides to a projection device and restacking said slides in order after projection thereof, comprising a vertical guideway having opposed grooves therein, wherein said slides may move, a feed magazine on one side of said guideway for holding horizontally stacked slides, means for urging the slide at one end of said stack into said guideway in line with said grooves, a reciprocating member in said guideway for pushing each slide in line with said grooves upwardly to clear said stack, the stroke of said member downwardly being sufficient to allow the next slide in said stack to enter said guideway whereby continued reciprocation of said member forces a series of slides upwardly in said guideway, friction means extending into the grooves of the opposed vertical guideways for bearing against the opposite edges of a slide to hold the same in position for projection during the rest period between upward movements, an optional system positioned to project the image directly from each said series of slides between upward movements thereof at a predetermined position in said guideway, a horizontally positioned slide receiving magazine positioned on the other side of said guideway above said optical system, and means for forcing the top slide out of said guideway laterally into said receiving magazine in a position at a slight angle to the vertical.

2,310,048
VIBRATION TRANSLATING SYSTEM
Walter J. Albersheim, Great Neck, N. Y., assignor to Western Electric Company, Incorporated, a corporation of New York
Application September 20, 1941, Serial No. 411,668
9 Claims. (Cl. 179—100.4)



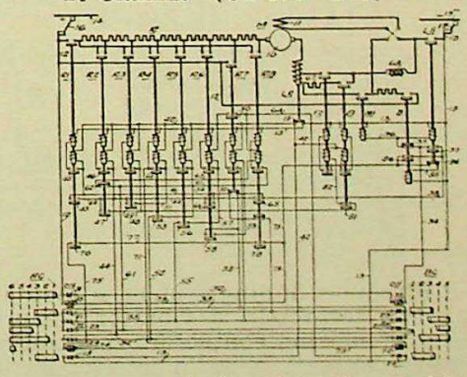
1. In a vibration translating device, a stationary structure, a vibratory structure, means for driving the vibratory structure and means for resiliently supporting the vibratory structure on the stationary structure comprising a piezoelectric crystal.

2,310,049
SOUND RECORD AND REPRODUCING SYSTEM
Walter J. Albersheim, Great Neck, N. Y., assignor to Western Electric Company, Incorporated, a corporation of New York
Application October 4, 1941, Serial No. 413,639
4 Claims. (Cl. 274—46)



3. The method of recording and reproducing a lateral cut sound record without substantial distortion due to the pinch effect which comprises recording the sounds in a groove having side walls approaching each other over a portion of their lengths along substantially exponential curves and reproducing the record with a reproducer having a vibratory system free to deflect in a vertical as well as a lateral sense and a stylus driven solely by the exponential portion of the groove.

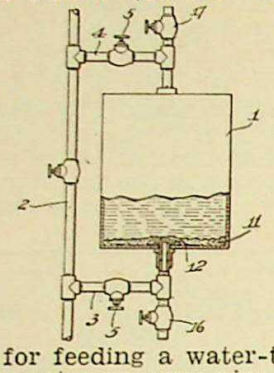
2,310,050
MOTOR CONTROL SYSTEM
Bascum O. Austin, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 30, 1941, Serial No. 417,158
10 Claims. (Cl. 172—179)



5. In a motor control system, in combination, a motor, a power conductor, switching means for connecting the motor to the power conductor, a controller for controlling the operation of said switching means, control means for controlling the motor current, a relay responsive to the motor current for normally controlling the operation of said control means, and means on

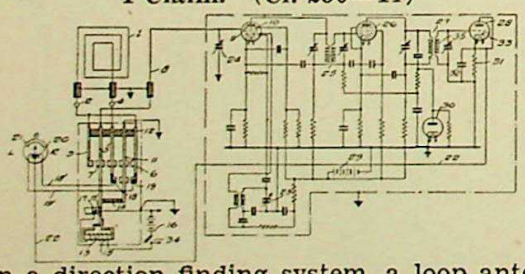
said controller for operating said control means independently of said relay under abnormal conditions.

2,310,051
FLUID FEEDING DEVICE
Harry L. Baer, Dormont, Pa.
Application February 7, 1940, Serial No. 317,693
1 Claim. (Cl. 210—38)



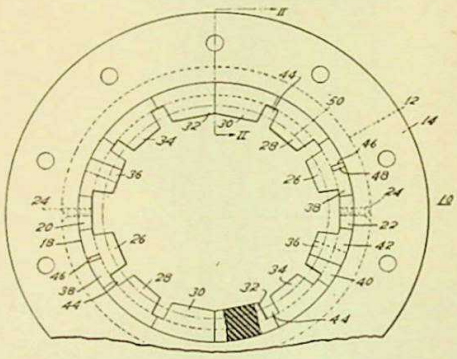
Apparatus for feeding a water-treating liquid undiluted to a water pressure pipe line, comprising a tank for said liquid provided with an inlet and an outlet, means for connecting said inlet and outlet to said pipe line at opposite ends of the tank, a flexible bag disposed in the tank and having a restricted opening communicating with said inlet, a tubular member extending through said opening and inlet and having a flange at its inner end overlying a portion of the bag surrounding said opening, means outside of the tank for drawing said flange tightly against the bag to clamp the portion of the bag surrounding its opening to the tank in sealing engagement therewith, said bag substantially filling the tank when expanded, means for controlling the entrance of water from said pipe line into said bag whereby to force said liquid out of the tank outlet and into the pipe line, closable means for admitting air to the tank, and means for connecting the bag with the atmosphere while said closable means is open to permit the bag to drain and collapse.

2,310,052
RADIO DIRECTION FINDING SYSTEM
Frederick E. Bartholy, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 16, 1940, Serial No. 361,441
1 Claim. (Cl. 250—11)



In a direction finding system, a loop antenna having two terminals, a vibrator comprising a plurality of moving contactors cooperating with stationary contacts, a radio receiver including a radio frequency vacuum tube amplifier, an input circuit between cathode and grid thereof, a connection between said grid and one of said moving contactors, leads interconnecting the terminals of said loop with stationary contacts respectively cooperating with said moving contactor, a signal transmission channel in said receiver including a plurality of amplifying stages, an output circuit energized therefrom including a vacuum tube detector, a high resistance between cathode and ground of said tube, a potential indicating device, a divided energizing coil therefor, a connection between the cathode of said last mentioned tube and the common terminal of said divided coil, the free terminals thereof being connected to a pair of stationary contacts of said vibrator cooperating with a moving contactor at ground potential, a second pair of stationary contacts connected to said loop terminals cooperating with said contactor at ground potential, and electromagnetic means for vibrating said contactors at a predetermined rate.

2,310,053
BEARING ASSEMBLY
Arthur Joseph Bastian, East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa., a corporation of Pennsylvania
Application May 28, 1942, Serial No. 444,773
9 Claims. (Cl. 308—238)

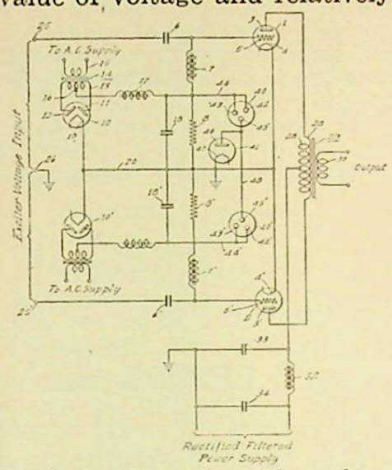


1. A bearing assembly comprising, in combination, a housing, a plurality of keeper strips secured to the housing in spaced relation to one another, a plurality of staves having bearing surfaces and base portions disposed between the keeper strips with their bases in edge to edge contact seating against the housing, each of the staves comprising a strong body consolidated from laminated fibrous material impregnated with heat-hardening resinoid, grooves disposed between certain of the staves at the bearing surfaces to provide lubricating channels, and a slot in the base portion of one of the staves between the keeper strips to compensate for expansion of the staves under predetermined conditions, the slot extending into the stave a distance substantially equal to the distance between the base of the stave and the lubricating groove at the edge to edge contact between the staves.

2,310,054
PROTECTION FOR BIAS FILTER CONDENSERS
Joseph E. Baudino, Merion, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 15, 1941, Serial No. 402,486
6 Claims. (Cl. 179—171)

1. In an overvoltage protective system, an impedance subjected to a unidirectional potential difference at predetermined polarity and normal operating value, a circuit associated with said impedance from which excessive voltage magnitudes at reverse polarity are likely to be impressed thereacross, means for preventing a rise of voltage across said impedance beyond said

normal operating value comprising a current path shunting said impedance including in series an element having infinite resistance below a threshold value of voltage and relatively low re-

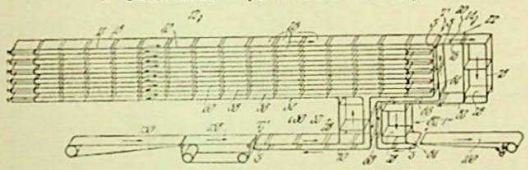


sistance therebeyond, and another element having infinite resistance at said operating polarity and relatively low resistance at the reverse of said polarity.

2,310,055
CONVEYER

Alonzo Linton Bausman, Springfield, Mass., assignor, by mesne assignments, to Joseph Greenberg, Herman Greenberg, Samuel Greenberg, and Sidney Greenberg, a copartnership doing business as National Equipment Company, New York, N. Y.

Application July 10, 1940, Serial No. 344,727
4 Claims. (Cl. 198—159)

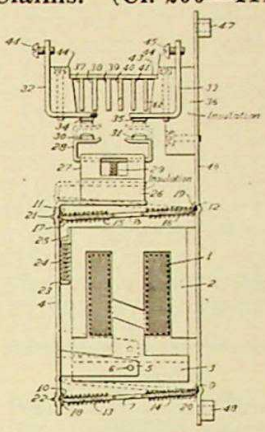


1. A conveyer of the class described comprising in combination, spaced pairs of outer and inner flexible members, separate flexible supporting members for supporting goods between the flexible members and spaced longitudinally thereof, one end of each supporting member connected at opposite sides to a certain pair of flexible members and the opposite ends of said members connected at opposite sides to the other pair of flexible members, and rotatable members for supporting and driving said flexible members to provide certain runs thereof and thereby position the supporting members in certain positions, said certain runs including an initial upper run extending into a first vertical run where the flexible members of the pairs thereof are horizontally spaced apart and therefrom to vertically spaced successive horizontal runs above the initial run succeeded by a second vertical run closely adjacent one end of the horizontal runs and where the flexible members of the pairs are closely adjacent thereto and then to a lower final horizontal run returning to the said initial run, said certain positions of the supporting members being horizontal in the initial, first vertical, spaced horizontal and final lower runs of the flexible members and vertical in the second vertical run thereof, and said flexible supporting members being adapted to change between horizontal and vertical positions as the flexible members change between horizontal and the second vertical runs.

2,310,056
MAGNETIC CONTACTOR

Waldemar I. Bendz, Arlington, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 4, 1940, Serial No. 368,493
5 Claims. (Cl. 200—111)

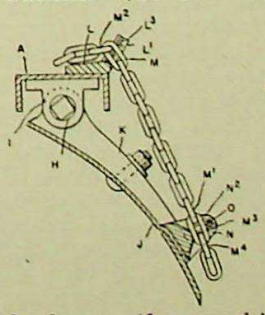


1. An electromagnetically operable contactor operating device comprising, in combination, a support, an electromagnet mounted on said support and including a coil and reciprocable plunger type armature which is movable into said coil, a hinged framework having the outline of a parallelepiped comprising two parallelogram frameworks each including two parallel sides, substantially perpendicular to said support and a side parallel to said support, said last mentioned side comprising an element common to both parallelogram frameworks, separate pivots at all eight corners of said parallepiped framework for allowing movement of all of the sides of the parallelepiped except that formed by said support, said plunger type armature being secured to said element common to both frameworks, said common element of the parallelepiped framework which is parallel to said support having a pair of springs for each parallelogram framework and clips for supporting the respective springs at the pivots, window portions on said common element which has contours substantially the same as that of the respective spring clips except that such contours are arranged at right angles to the normal mounted position of the spring clips thereby making it possible, upon rotation of the spring clips about 90° to pass such clips through said windows and allow disassembly of said parallelogram framework.

2,310,057
ROAD PLANER

Henry E. Boerma, Cadillac, Mich., assignor to Pneu-Hydro Road Machinery Co., Cadillac, Mich., a corporation of Michigan

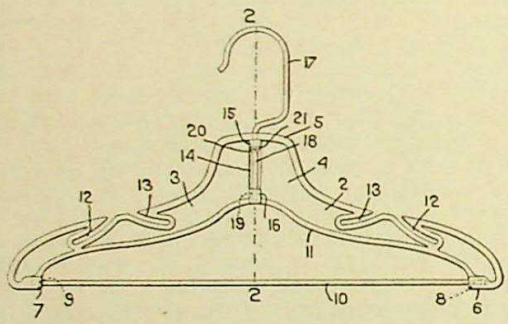
Application March 10, 1941, Serial No. 382,619
2 Claims. (Cl. 37—159)



1. In a road planer, the combination with a

beam, a mold board hinged to said beam, and fluid actuated means mounted on said beam for pressing said mold board in a downward direction, of means for restraining downward movement of said mold board, comprising a pair of chains, a pair of members secured to opposite end portions of said mold board near the lower edge thereof, each of said members having a rearwardly opening slot for receiving a chain link and also having a recess on its under side forming a seat for an adjacent chain link, a cotter pin engaging an aperture in said member closing said slot in rear of the link engaged therewith, a pair of members secured to said beam, each provided with an upwardly and rearwardly extending flange slotted to receive another chain link and having a recess on its upper side for seating an adjacent link and constituting an anchorage for the chain, the pressure of said fluid actuated means normally holding said chain taut with said link seated in said recess.

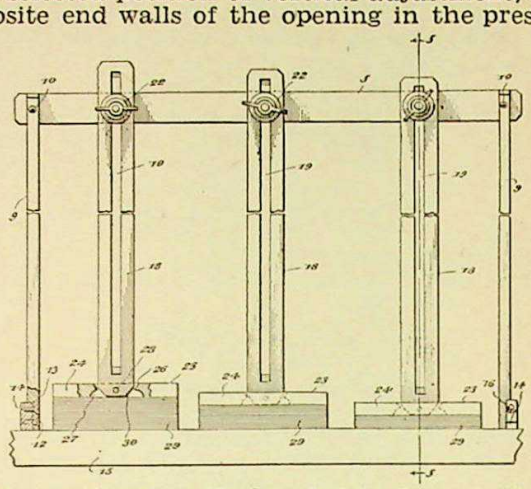
2,310,058
GARMENT HANGER
John Bolten, Andover, Mass., and Henry Spitz, Great Neck, N. Y.
Application August 27, 1941, Serial No. 408,538
5 Claims. (Cl. 223—88)



1. A garment hanger having an integral body of thermoplastic material comprising a neck portion having a peripheral rib and a relatively thin web provided with a central aperture and outwardly and downwardly curved arms extending in opposite directions from said neck portion, a suspending member having a vertical shank mounted centrally in said neck portion and extending across said aperture and journaled in the upper and lower portions of said rib of said body and provided with a deformed portion within said aperture adjacent to the upper wall thereof to prevent detachment of the suspending member from said neck portion.

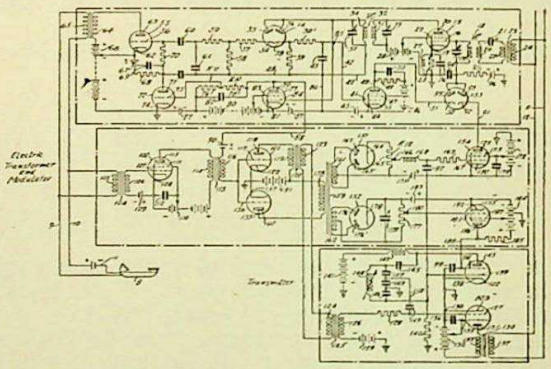
2,310,059
STATIONERY PADDING DEVICE
Clark W. Bond, Littleton, Colo.
Application April 8, 1942, Serial No. 438,192
2 Claims. (Cl. 11—1)

2. A device of the class described comprising a frame for attachment to a support, a longitudinally slotted standard mounted for vertical adjustment on the frame and having its opposite longitudinal edges at the lower end thereof downwardly inclined, a presser foot having an opening formed therein receiving the inclined end of the standard and having its lower portion cut away to form a clearance communicating with said opening, a bolt extending through the inclined end of the standard and said presser foot and constituting a pivotal connection between the parts, and a clamping member extending through the slot in the standard and engaging the frame for holding the standard in a selected position of vertical adjustment, the opposite end walls of the opening in the presser



foot being downwardly beveled to form inclined stops for engagement with the inclined edges of the standard.

2,310,060
TWO-WIRE RADIO TRANSMISSION
James D. Booth and Ashley P. Bock, Catonsville, Md., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 2, 1940, Serial No. 349,526
9 Claims. (Cl. 178—44)



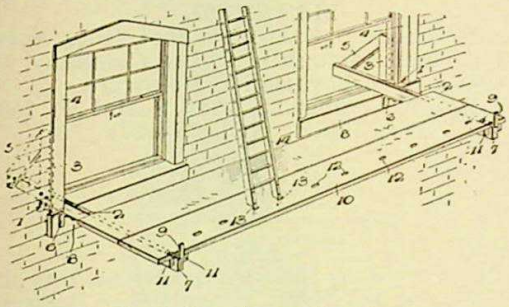
1. In a communication system, a single communicating channel, a plurality of communication centers adapted to utilize said channel, each of said centers being equipped with means for transmitting and receiving signals, said means for transmitting embodying an oscillation generator, and control means responsive to the presence of signals in said receiving means for preventing said generator from producing any substantial output current.

2,310,061
POROUS METAL
Orville R. Bowen, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
No Drawing. Application March 6, 1941, Serial No. 381,968
2 Claims. (Cl. 75—22)

1. In the method of making porous metal articles the steps comprising; mixing copper and tin powders in suitable proportions, to subsequently form a bronze, with from one-half to one and one-half percent of copper carbonate which acts as a die lubricant and reduces friction at the die surfaces, forming the mixture into an article of

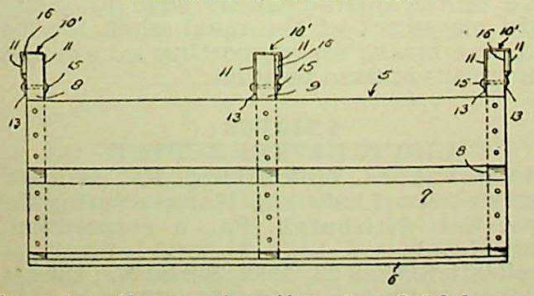
the desired shape by briquetting, and then sintering the formed article for a time, temperature and in an atmosphere suitable for causing the copper and tin to alloy together to form a bronze and simultaneously decomposing the copper carbonate into a gaseous component and pure copper which copper enters into the alloying reaction, whereby an article of homogeneous character is formed without extraneous, non-metallic components being present at certain of the boundaries between various particles of metal.

2,310,062
SCAFFOLD STRUCTURE
Joseph Broncato, Rye, N. Y.
Application February 21, 1941, Serial No. 380,048
5 Claims. (Cl. 304—14)



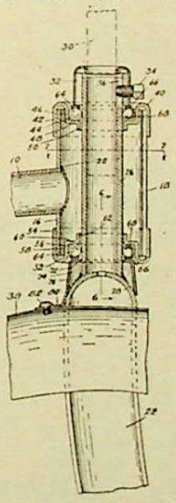
1. A scaffold of the character to be supported from window frames comprising a pair of brackets, each comprising a horizontal base member adapted to rest on a window sill, one end of said base extending outwardly of the window to provide a support for a scaffold plank, the other end of the base extending inwardly of the window and having an offset portion adapted for engagement with the facing strip of a window frame, means associated with the free end of the plank supporting portion to limit longitudinal movement of a scaffold plank with respect to the bracket, means attached to the under side of said portion adapted for engagement with the outer face of a window sill, a scaffold plank extending between the brackets and freely supported thereon, and means attached to the plank in the vicinity of its free ends for engagement with the brackets to prevent lateral movement of the plank with respect to the brackets, comprising pairs of cleat members, each pair being spaced apart a distance substantially equal to the width of the base portions of the brackets and forming a slot to receive the upper edge portions of the brackets.

2,310,063
FIELD BOX
Wesley P. Browne and Albia L. Sheldon, Winter Garden, Fla.
Application May 9, 1941, Serial No. 392,814
1 Claim. (Cl. 217—40)



In a handle construction for field boxes, the combination of a field box head having a cutout opening through an edge thereof, of a sheet metal handle member of channel formation provided with a length equal to the width of the head and receiving the upper portion of said head therein and spanning the cutout, said handle member including opposite side portions and a connecting portion adapted to rest flatly on said edge of the head with one of said side portions resting flatly against a side face of the head and the other side portion being bent to have a part thereof in contact with a side face of the head and a part thereof spaced from said latter-named side face of the head, said side portion of the handle member having cutouts opposite the cutout of the head to permit a person to place fingers into the cutout of the head, and a strip filling the space between one of the side portions of the handle member and the head and acting to reinforce the latter where weakened by the cutout therein and to provide a bearing surface for the person's fingers to engage when in the act of lifting the head, and means for securing the side portions of the handle member to the head.

2,310,064
TRICYCLE
John A. Conti, East Templeton, Mass., assignor to Hedstrom-Union Company, Gardner, Mass., a corporation of Massachusetts
Application July 18, 1941, Serial No. 402,949
12 Claims. (Cl. 280—279)



1. In a velocipede, a backbone tube, a steering fork tube fixed to the front end part of the backbone tube, caps on the open ends of the steering fork tube having cylindrical side walls overlying and in closely fitting engagement with the outer side wall of the steering fork tube and end walls which bear against and overlie the ends of the steering fork tube having cup-shaped depressions therein which enter the ends of the steering fork tube, ball bearings located in said cup-shaped depressions in bearing engagement both with the bottom and with the side walls of said depressions, the bottom walls of said depressions having aligned openings therein, a steering fork having a post located loosely in said openings and in direct bearing engagement with said ball bearings and being supported rotatably thereby against displacement radially of the fork, a member carried by said fork beneath and in operative bearing relation with the lower ball bearing, and a collar on the upper end part of said post above and in retaining and operative bearing relation with said upper ball bearing, said member and collar exerting thrust on said bearings axially of said fork.

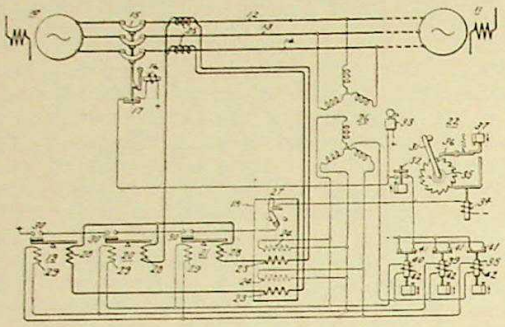
2,310,065

SUPERVISION OF ELECTRIC SYSTEMS

Selden B. Crary, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application June 3, 1941, Serial No. 396,436

10 Claims. (Cl. 175—294)



1. In combination with an alternating-current power system, circuit-interrupting means for segregating said system during out-of-step conditions so as to prevent damage to associated apparatus from such out-of-step conditions, an out-of-step protective device for distinguishing between faults and asynchronous conditions on said system for operating said circuit-interrupting means, and means for rendering said out-of-step protective device ineffective except when the angular displacement between the voltages at the two ends of the system is less than a predetermined amount.

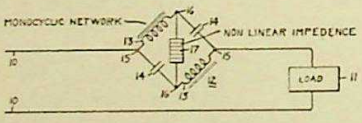
2,310,066

ELECTRICAL REGULATING APPARATUS

Philip M. Currier, Ballston Spa, N. Y., assignor to General Electric Company, a corporation of New York

Application April 28, 1941, Serial No. 390,759

5 Claims. (Cl. 171—229)



1. In combination, an alternating current supply circuit, an electrical load connected in series with said circuit, current limiting means for preventing excessive current flow in said circuit upon a decrease in impedance of said load, said current limiting means comprising a monocyclic network having input terminals and output terminals, said input terminals being connected in series with said circuit and a negative impedance-current characteristic impedance connected across said output terminals.

2,310,067

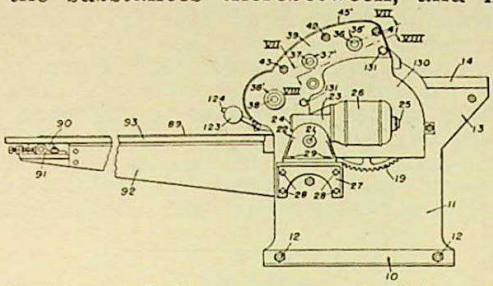
MEAT REFORMING AND ROLLING MACHINE

Charles Doering, Henry H. Doering, Bert J. Skoglund, and Eric W. Anderson, Chicago, Ill.; said Skoglund and said Anderson assignors to said Charles Doering and said Henry H. Doering

Application October 1, 1938, Serial No. 232,740

12 Claims. (Cl. 17—26)

1. In a processing machine of the character mentioned, the combination with cylindrical drum means having a smooth surface for feeding substances along a predetermined path, of a plurality of rotary means in said path, end piercing blades extending radially from said rotary means to confront said smooth surface feeding means with the substances therebetween, and means



for effecting relative movement between said feeding and rotary means.

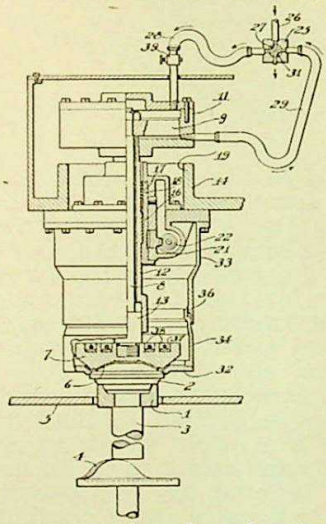
2,310,068

PRESSING APPARATUS FOR PLASTIC MATERIAL

Walter H. Emerson, East Liverpool, Ohio, assignor to The Homer Laughlin China Company, Newell W. Va., a corporation of Delaware

Application November 28, 1939, Serial No. 306,482

17 Claims. (Cl. 25—27)



1. Pressing apparatus for shaping articles of clay and the like, comprising a vertically reciprocable chuck adapted to loosely support a mold carrying a blank of clay, a vertically reciprocable die disposed above the chuck, a vertical rod rigidly connected to the top of said die, ring-like cam means rotatably mounted in axially fixed position on said rod, the lower surface of said means being provided with a projection and the upper surface being provided with a recess, means for rotating said cam means around the rod, means for raising the chuck to press the blank against the die to thereby shape the blank over the mold, cam follower rollers rotatably mounted in fixed position in engagement with said upper and lower surfaces of said cam means for raising and lowering the die during rotation of said cam means, means adapted to engage the upper surface of the mold near its edge for limiting upward movement of the mold when the die is raised, and means for supporting said mold-engaging means in fixed position.

2,310,069

CIRCUIT INTERRUPTER

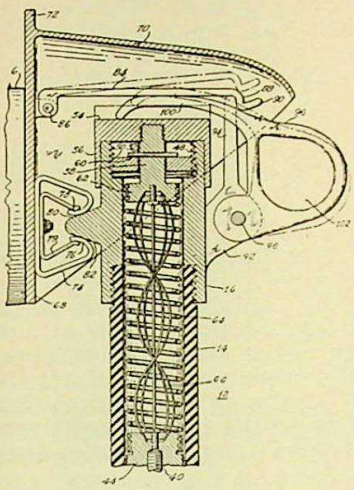
Harold H. Fahnoe, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 23, 1939, Serial No. 280,694

22 Claims. (Cl. 200—116)

3. In an electric cutout device, a fuse support

spaced fixed contacts for engaging spaced fuse terminals on the support, pivotal supporting means adjacent one end of said support, latch means adjacent the opposite end of said support for retaining the support in engagement with the contacts, a fuse element on the support, means having appreciable mass spaced from the latch



means and including resilient means maintained in stressed condition by said fuse element, and means movable independently of said terminals operated by impact of said second means at the end of its path of movement after release of the resilient means from said fuse element, to release said latch means.

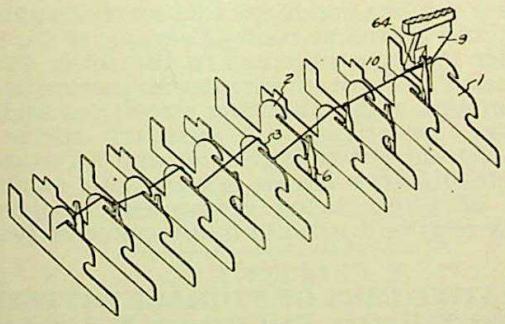
2,310,070

KNITTING MACHINE AND METHOD

Oscar Fregeolle, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts

Application June 25, 1940, Serial No. 342,323

30 Claims. (Cl. 66—9)



1. A method of incorporating a non-elastic and elastic yarn in a plain knitted fabric by drawing the non-elastic yarn over sinker edges and drawing said elastic yarn over the nibs of sinkers positioned above the aforesaid sinker edges.

2,310,071

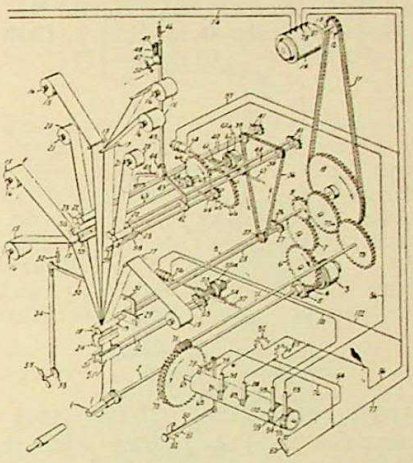
CONDENSER WINDING MACHINE

William F. Frisch, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application April 10, 1940, Serial No. 328,830

4 Claims. (Cl. 242—56)

1. In a machine for winding coil condensers, means for supplying alternate strips of foil and dielectric, a mandrel, means for feeding the foil to the mandrel, means for feeding the dielectric to the mandrel, said dielectric feeding means being arranged between the mandrel and the foil feeding means, dielectric cutting means arranged between the dielectric feeding means and the mandrel, foil cutting means arranged between the foil feeding and dielectric feeding means,



means for rotating the mandrel to wind the strips thereon at a speed sufficient to take up the slack in the strips fed thereto, means for operating the foil cutting means to cut a section out of the foil providing a gap between the severed ends, and means synchronized with said foil cutters for operating the dielectric cutting means to cut the dielectric in said gap.

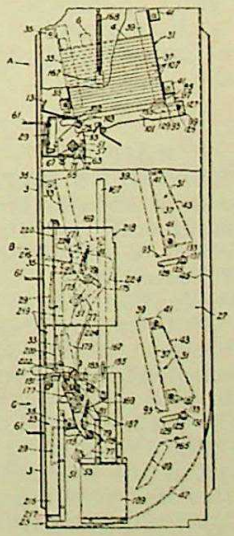
2,310,072

VENDING MACHINE

Benjamin W. Fry, University City, Mo., assignor to National Vendors, Inc., St. Louis, Mo., a corporation of Missouri

Application March 27, 1940, Serial No. 326,123

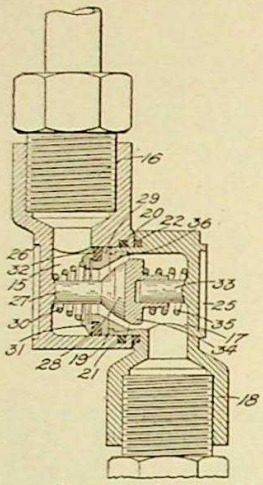
14 Claims. (Cl. 312—63)



1. A vending machine comprising a magazine, said magazine having an open bottom with front and rear article supporting shelves and having an outlet at the front shelf permitting limited forward movement of an article so as to release its rear portion from the rear supporting shelf, a reciprocating frame movable forward to push a lowermost article from said rear shelf, whereby it is held on the front shelf, and pawl means at the front portion of the frame responsive upon

contact with the front portion of the lowermost article to move into position for ejecting the article from the front shelf upon return movement.

2,310,073
PIPE COUPLING
Louis Thomas Hutchison Greig, Nazeing, England
Application December 19, 1941, Serial No. 423,673
In Great Britain December 5, 1940
9 Claims. (Cl. 284—17)

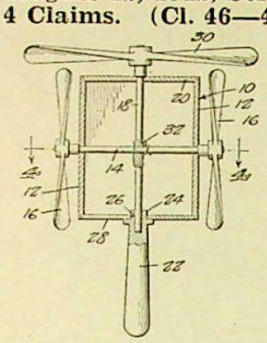


1. In a pipe coupling including a plurality of pairs of interfitting elements, each pair establishing a passage therethrough, said elements being exteriorly grooved, a base board, a stationary end plate supported from said base board, a compression plate supported from said base board in spaced relation with respect to said end plate so that said pairs of interfitting elements may be held between said plates, means for moving said compression plate toward said end plate to compress said interfitting elements therebetween, and a plurality of bars supported from said base board and extending between said plates, said bars being received in the grooves in said pairs of members and serving to hold the same against angular movement in a plane normal to the plane of movement of said compression plate.

2,310,074
TREATMENT BATH
Ernst Götte, Dessau in Anhalt, Germany, assignor, by mesne assignments, to "Unichem" Chemikalien Handels A.-G., Zurich, Switzerland, a corporation of Switzerland
No Drawing. Application May 4, 1939, Serial No. 271,712. In Germany May 5, 1938
9 Claims. (Cl. 8—54)

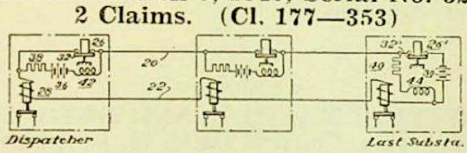
1. In the treatment of nitrogen-containing fibrous materials with acid-reacting baths containing anion active saponaceous substances composed of a lipophilic group of at least 6 carbon atoms and a hydrophilic inorganic salt-forming acid radical neutralized with a base of the group consisting of alkalies, ammonia and inorganic bases wherein the nitrogen-containing fibrous materials absorb substantial quantities of said saponaceous substances, the step which comprises applying said baths to said materials in the presence of an organic water-soluble surface active agent which is electro-neutral in aqueous solutions in an amount ranging from about 5% to about 50% of the quantity of said anion active substance, said amount substantially completely preventing the absorption of said anion active substance by said fibrous materials.

2,310,075
TOY
Apostolos G. Hadjepetres, Chicago, Ill.
Application August 12, 1942, Serial No. 454,611
4 Claims. (Cl. 46—47)



1. A toy of the type described comprising a body having a grip, two propeller shafts rotatably carried by said body at an angle to each other, and a flexible pull means attached at one end to one propeller shaft and wrapped at least once about the other propeller shaft and adapted to be coiled on the said one propeller shaft to impart rotation to the two propeller shafts when pulled to unwind from the said one propeller shaft.

2,310,076
SIGNALING SYSTEM
Edwin L. Harder, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 5, 1940, Serial No. 322,301
2 Claims. (Cl. 177—353)



1. In a signaling system having a plurality of stations and line conductors extending therebetween; a main source of direct-current power; line relays at certain of the stations; means connecting said source of power, all of said line relays and the line conductors in series circuit relation; and means at each of certain of the stations for applying impulses to the series circuit comprising a circuit interrupter connected in the series circuit, and a shunting circuit for said interrupter comprising an auxiliary source of direct-current power, a resistor and an inductor connected in series circuit relation, said auxiliary source of power being connected in opposed polarity relation with said main source of power.

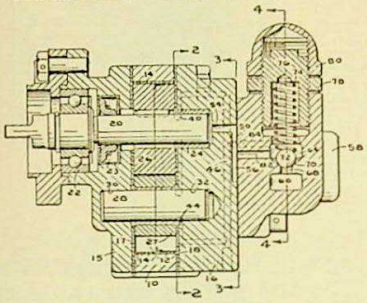
2,310,077
INSULATING PART OF STORAGE BATTERIES
Mortimer T. Harvey, East Orange, N. J., assignor to The Harvel Corporation, a corporation of New Jersey
No Drawing. Application October 9, 1939, Serial No. 298,705
7 Claims. (Cl. 136—146)

2. A non-conducting separator for storage battery plates comprising polymerized cashew nut shell liquid.

2,310,078
PUMP OR MOTOR FOR POWER TRANSMISSION
Kenneth R. Herman, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application December 24, 1938, Serial No. 247,579
2 Claims. (Cl. 103—126)

1. A gear pump or motor comprising in com-

bination a sectional body having a gear chamber formed therein, a pair of intermeshing gears positioned in said chamber, suction and delivery ports formed in the body, a pair of balancing chambers for each gear at points diametrically opposite the suction and delivery ports respectively, a pair of conduits formed in the body each connecting one balancing chamber of each pair with one of the other pair, a pair of passages extending from the suction and delivery ports to one end face of said body, a second pair of passages extending from said conduits to said



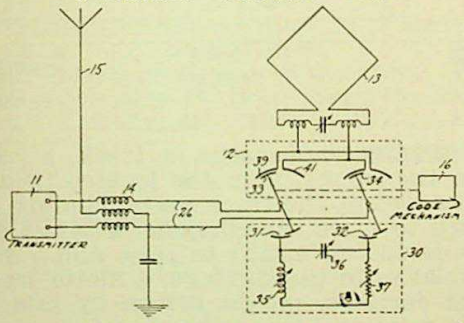
end face and spaced from the other pair of passages, an end cap member removably secured to said end face, and conduits in said cap registering with said passages and arranged to connect each passage of one pair with one passage of the other pair, said first pair of passages being positioned symmetrically about an axis lying in said end face and said other pair of passages being positioned non-symmetrically about said axis whereby the end cap may be mounted on the body in either of two angularly spaced positions without transposing the connections between the passages.

2,310,079

DIRECTIONAL RADIO BEACON

Adolf Harald Hermansson, Stockholm, Sweden, assignor to Aga-Baltic Radio Aktiebolag, Stockholm, Sweden, a corporation of Sweden

Application December 11, 1940, Serial No. 369,580
In Sweden January 4, 1940
6 Claims. (Cl. 250—11)



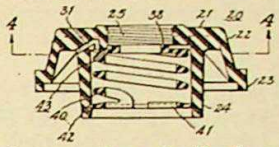
1. A directional radio beacon comprising a transmitter, a non-directional antenna and a directional antenna fed thereby, phase shifting means connected between said transmitter and one of said antennas to periodically reverse the phase relationship of the emitted waves for reversing the direction of transmission, an artificial load circuit, coupling means actuated in synchronism with said phase shifting means to couple said load circuit to said transmitter, said phase-shifting means and said coupling means being so related that the impedance of said load circuit and said coupling means corresponds at all times in magnitude and phase to the impedance of said phase shifting means and the antenna connected thereto, whereby a constant load is maintained on said transmitter during the periods of phase shifting.

2,310,080

NONOVERFILL DEVICE

Robert H. Hill, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application January 8, 1940, Serial No. 312,819
2 Claims. (Cl. 251—144)



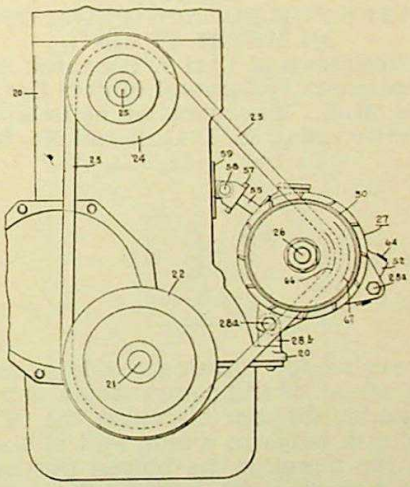
1. A one-piece valve, helical-coil spring and resilient split washer member made of molded material, the inner surface of the turns of the spring being coincident with a cylinder whose axis is the axis of the spring, said inner surface joining helical side surfaces of the turns inclined in opposite directions with respect to the axis of the spring, the end turns of the spring being respectively integral with the valve and the washer.

2,310,081

GENERATOR TRANSMISSION

Robert H. Hill, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

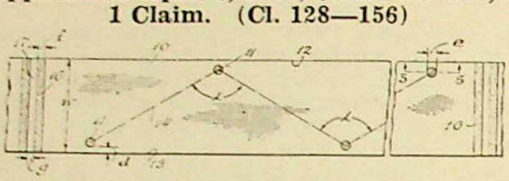
Application March 21, 1941, Serial No. 384,455
8 Claims. (Cl. 74—230.17)



1. A transmission for a generator driven by a variable speed engine comprising a driving pulley connected with the engine, a driven pulley connected with the generator, a third pulley, a belt connecting the three pulleys, one of the two first mentioned pulleys having axially adjustable flanges with which the belt engages and speed responsive means for changing the diameter of the belt engaging surfaces of said flanges, means for keeping the belt practically uniformly taut as said diameter varies said belt-tensioning means including the generator and a structure for so pivotally supporting the generator that the force of gravity may act upon the generator, at least in some positions thereof to tighten the belt, and including a spring for urging the generator in a direction to tension the belt, and including means for transmitting the force of the spring to the generator, said means being responsive to the position of the generator for increasing the ability of the spring to urge the generator into belt-tightening position as the generator moves into a position wherein the force of gravity is less effective to maintain the generator in belt-tightening position and means for retarding change of position of the belt relative to the axis of the variable speed pulley, said means com-

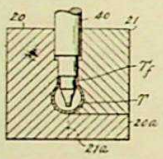
prising a dash-pot connected with the generator and providing a fluid flow-restricting passage whereby the rate of pivotal movement of the generator is reduced, and said means including also the generator which, by virtue of its inertia, delays the starting of the change of position of the belt.

2,310,082
BANDAGE
Dan A. Holbrooke, New York, N. Y.
Application April 6, 1940, Serial No. 328,192
1 Claim. (Cl. 128—156)



A bandage comprising a strip of fabric and an adhesive material applied thereto in pairs of narrow transverse zones, said pairs being spaced from each other a multiple of the width of the fabric, and in zones near the longitudinal edges of the fabric, and the fabric in the adhesive-provided zones being closer woven than in the remainder of the fabric.

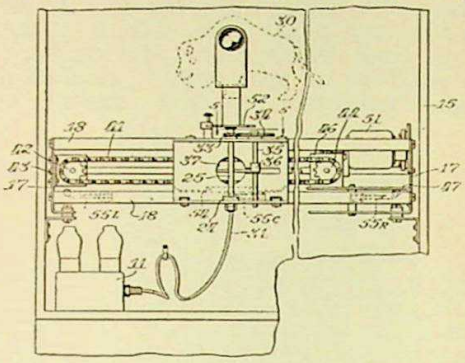
2,310,083
APPARATUS FOR FORMING SIDE OPENINGS IN METAL TUBING
John Q. Holmes and Carl J. Wiegand, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 28, 1941, Serial No. 395,650
6 Claims. (Cl. 153—2)



1. Apparatus for forming a side opening in a length of metal tubing comprising a pair of relatively movable dies for clamping the tubing and for forming a bulge in a side wall of the tubing, a punch for piercing the bulged portion of the tubing, a reciprocatory member for moving the punch at right angles to the axis of the tubing, and a mechanism operated by the reciprocatory member for effecting relative movement between the dies in a direction at right angles to the axis of the tubing and to the direction of movement of the punch said mechanism maintaining the dies clamped against the tubing while the punch pierces the bulged portion.

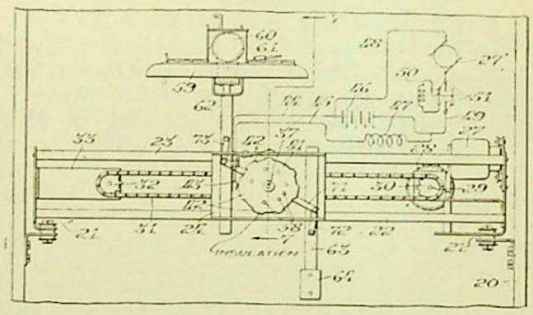
2,310,084
LIGHT RESPONSIVE TARGET APPARATUS
Donald E. Hooker, Charles T. Breitenstein, and Nels A. Nelson, Chicago, Ill., assignors to Raymond T. Moloney, Chicago, Ill.
Application January 10, 1940, Serial No. 313,274
10 Claims. (Cl. 273—101.1)

1. A target shooting apparatus comprising a horizontal track, a carriage movable therealong in either direction, a target, means supporting the target on the carriage for movement therewith and for relative turning movement, a gun including a trigger and a normally open switch in a first circuit, a reversible electric motor including connections for driving the target along the track, another circuit including the switch and motor, a photo-electric cell in another circuit and associated with the target, an "on and off" unit to cause reversal of the motor and change in direction of travel of the carriage, a step-up commutator in another circuit responsive to closing of the switch and a ray of light from the gun hitting the photo-cell to operate



the "on and off" unit, step-up control means in the gun whereby the switch can cause operation of the commutator for only a predetermined number of steps and then become inoperative so that thereafter the motor cannot be reversed, and means to keep the motor running for a predetermined time when the commutator is no longer effective.

2,310,085
TARGET SHOOTING APPARATUS
Donald E. Hooker and Frank G. Nicolaus, Chicago, Ill., assignors to Raymond T. Moloney, Chicago, Ill.
Application August 10, 1940, Serial No. 352,152
12 Claims. (Cl. 273—105.2)

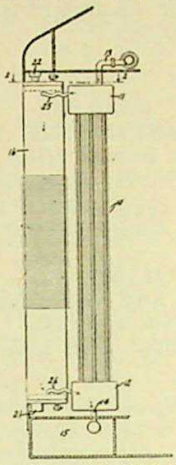


1. In a target apparatus, a track, a carriage movable therealong, a motor located in a fixed position adjacent the track and including means connected to drive the carriage, a target on the carriage including means to raise and lower the target relative to the carriage, a motor traveling with the carriage, means driven by said latter motor to raise and lower the target, and control means operatively associated with said latter means for automatically varying the stroke of the target.

2,310,086
SURFACE TYPE HEAT EXCHANGER
Alan Howard, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 21, 1941, Serial No. 379,937
2 Claims. (Cl. 257—132)

2. A surface type heat exchanger comprising inlet and outlet headers, a plurality of rows of tubes circular in cross-section and connected between the headers, a plurality of other tubes airfoil-shaped in cross-section and connected to communicate with the inlet and outlet headers,

and means for pivotally supporting and adjusting the other tubes to vary the flow of cooling



medium through the passages formed between the first mentioned tubes.

2,310,087

DYESTUFFS OF THE DIBENZANTHRONE SERIES

Edward T. Howell, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 9, 1940, Serial No. 351,959

8 Claims. (Cl. 260—353)

1. The process for producing gray to black vat dyes of the dibenzanthrone series which comprises subjecting a nitro dibenzanthrone compound of the group consisting of nitro-dibenzanthrone, nitro-dibenzanthronyls and nitro-isodibenzanthrones to reduction in alcoholic suspension, adding a caustic alkali to the reaction mass and heating to effect condensation of the resulting amino-dibenzanthrone to produce direct dyeing gray to black vat dyes.

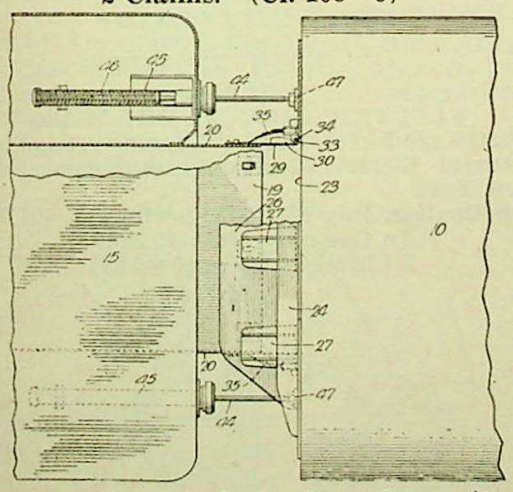
2,310,088

VESTIBULE PASSAGEWAY FOR RAILWAY VEHICLES

Alfred George Hoppe, Wauwatosa, Wis.

Application May 17, 1941, Serial No. 393,982

2 Claims. (Cl. 105—9)



1. In a railway train having a locomotive cab and a tender, a vestibule passageway connection between said cab and tender comprising side plates adapted to be rigidly connected to the forward end of said tender and to extend forwardly toward the adjacent end of said cab, an inverted U-shaped rubbing plate, means for resiliently forcing said rubbing plate into engagement with the adjacent end of said cab, a wing overlapping each side plate a material distance, a plurality of hinges for hingedly connecting each wing to the rubbing plate, a leaf spring comprising a plurality of superposed leaves of varying length rigidly mounted at its thicker end on said rubbing plate and having its free end curved inwardly and the outer end of the longer leaf of said spring provided with an extended straight portion flatly engaging the outer side of the corresponding wing opposite the overlapping portions of said wing and side plate for applying pressure normal to said overlapping portions for yieldingly holding the wing in flat contact against the corresponding side plate, each of said hinges comprising two parts, and a pin and slot connection between the two parts with the slots extending transversely to the longitudinal axis of the vehicles whereby a limited relative lateral and angular movement of the side and rubbing plates may be had while the spring retains the wing flatly against the rubbing plate.

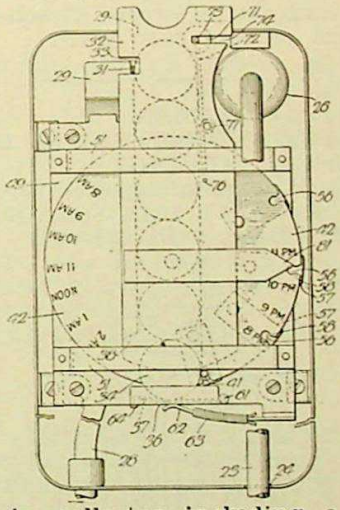
2,310,089

PERIODIC COIN COLLECTOR

William L. Hudson, Chicago, Ill.

Application December 11, 1940, Serial No. 369,624

11 Claims. (Cl. 194—9)



8. A coin collector including a coin chute adapted to hold a plurality of coins, a switch actuated by an upper one of the coins for controlling apparatus to be paid for associated with the collector, and timing mechanism effective whether the apparatus to be paid for is used or not for automatically removing from the coin chute successive coins in successive predetermined periods.

2,310,090

TIME SWITCH

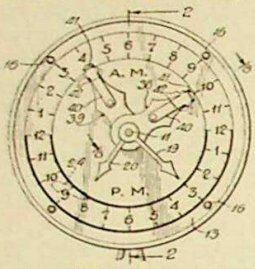
Antoine G. Kalaydjian, New York, N. Y.

Application December 24, 1941, Serial No. 424,271

6 Claims. (Cl. 200—36)

1. A time switch comprising a 24 hour clock mechanism having concentric minute and hour spindles, a switch unit having a back plate and a face plate secured in spaced apart relation, said plates having central openings through which project said clock spindles, time indicating hands on the ends of said spindles in front of said face plate, said face plate having indicia of time thereon, a contact in the space between said plates and operated by said hour spindle

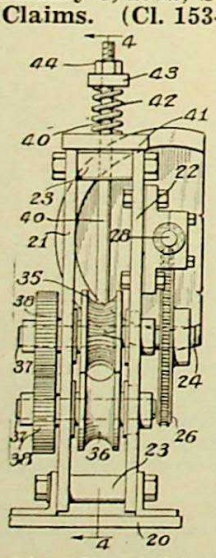
to rotate in a circular path, a circular conductor on said back plate providing a connection from an electric circuit to said contact, a helical conductor also in the space between said plates so as to be contacted by said contact, an insulator member in the form of a helix having one turn and meshed with said helical conductor, said insulator member and helical conductor being rotatably mounted for mutually independent movement so as to expose any size segment of said conductor to said contact at any desired



place in the path of travel of the contact, a second connection for an electric circuit including a fixed contact within the space between said plates, said helical conductor having at least two complete turns so that one of said turns is at all times exposed to contact with said fixed contact, the mountings for said insulator member and helical conductor including hubs journalled concentrically around said clock spindles in said face plate, and setting arms attached to said hubs in front of said face plate.

2,310,091
MACHINE FOR AND METHOD OF BENDING TUBING

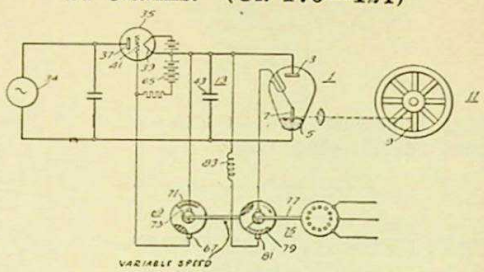
Francis M. Kepler, Upper Darby, Pa.
Application January 9, 1942, Serial No. 426,257
18 Claims. (Cl. 153—54)



1. A method of bending tubing or the like comprising passing the tubing over a smooth snugly-fitting mandrel and through the generally circular opening defined by a pair of juxtaposed driving rolls, each roll having an annular semi-circular channel formed in its outer periphery, said channels having generally transverse corrugations formed therein, thereby to form diametrically opposed series of semi-circular corrugations in the outer surface of said tubing while maintaining a smooth inner surface on said tubing, and subsequently passing the so-corrugated tubing over a curved mandrel between a pair of juxtaposed channeled bending rolls thereby to bend said tubing while deepening the corrugations along the inner edge of the bend and flattening the corrugations along the outer edge of the bend and while maintaining a smooth inner surface on said tubing.

2,310,092
ELECTRIC DISCHARGE APPARATUS

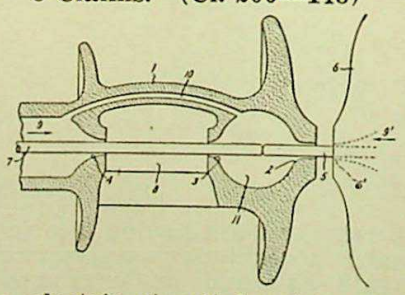
Dewey D. Knowles, Forest Hills, Pa., and Cecil E. Haller, Bloomfield, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application May 17, 1935, Serial No. 22,012. Divided and this application January 16, 1937, Serial No. 120,940
24 Claims. (Cl. 176—124)



1. In combination an electric discharge device having a principal current path defined by a plurality of principal electrodes and a starting current path extending from a starting electrode for initiating current flow in said principal path, a capacitor connected between said principal electrodes, means for charging said capacitor including another discharge device having a plurality of principal electrodes and a control electrode, means for normally applying a potential between said control electrode and one of the said last named principal electrodes of such character that the said last named discharge device is deenergized and means for intermittently applying a potential between said control electrode and the said last-named principal electrode such that the said last-named discharge device is energized for a predetermined interval of time and during said interval of time transmits a pulse of current to charge said capacitor, and means for connecting said capacitor after it has been so charged to said starting path whereby a pulse of current is transmitted through said starting path and current flow is initiated in said principal path.

2,310,093
ELECTRIC CIRCUIT BREAKER

Hubert Korndörfer, Berlin, Germany, assignor to General Electric Company, a corporation of New York
Application July 10, 1941, Serial No. 401,784
In Germany July 1, 1940
5 Claims. (Cl. 200—148)



1. In an electric circuit breaker of the fluid-blast type comprising a pair of relatively movable contacts separable to draw an arc therebetween,

an interrupting head for said contacts, means including a plurality of orifices in said interrupting head so constructed and arranged as to be rendered effective simultaneously to emit a plurality of simultaneous blasts of fluid to engage said arc at spaced points thereon to extinguish the same, and an additional orifice subsequently rendered effective to emit an additional blast of fluid for engaging said arc.

2,310,094

ELECTRICAL RESISTANCE ELEMENT

William Kroll, Luxemburg, Luxemburg; vested in the Alien Property Custodian

No Drawing. Original application January 17, 1940, Serial No. 314,229. Divided and this application March 8, 1940, Serial No. 322,930. In Luxemburg July 24, 1939

2 Claims. (Cl. 201—76)

1. Electrical resistor element composed of an alloy consisting of manganese, copper, and nickel, the manganese content being upwards of 50%, the nickel content being at least 0.5% but less than 10%, and the copper content being the remainder and amounting to at least 15%, said alloy element being in the ductile condition resulting from quenching it from a temperature above the beta-alpha transformation point at about 740° C.

2,310,095

PRODUCTION OF LIGNITE BRIQUETTES

Ernest T. Lance and William L. Wells, Mount Pleasant, Tex.

No Drawing. Application May 23, 1940, Serial No. 336,886

2 Claims. (Cl. 44—10)

1. The process for preparing lignite coal for briquetting comprising heating the powdered porous coal to remove a substantial portion but not all of the water from the pores leaving approximately 10 percent and while the coal is in a heated condition with water vapor in the pores, adding thereto, emulsified asphalt with water in the continuous phase to coat the particles and seal the pores and heating the mixture to remove the water from the asphalt and leave a film of asphalt on the coal and then mixing with an adhesive binder.

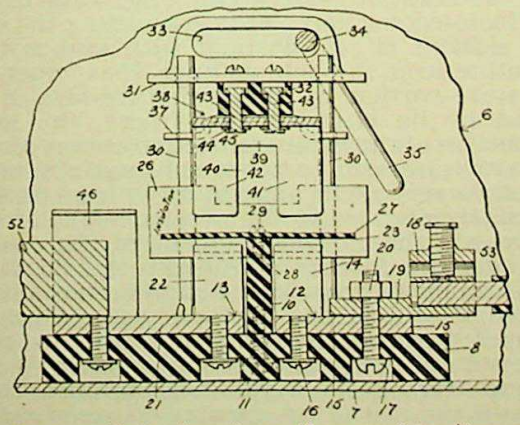
2,310,096

SWITCH STRUCTURE

Edwin W. Landmeier, Cincinnati, Ohio, assignor to The Wadsworth Electric Manufacturing Company, Covington, Ky., a corporation of Kentucky

Application March 25, 1941, Serial No. 385,112

8 Claims. (Cl. 200—163)



1. In a switch structure the combination of an insulating base, an insulating shield above and in spaced relation thereto, groups of electrically connected fixed contacts arranged in spaced relation on said base below the shield, a barrier extending between certain of said groups of contacts, baffles depending below the shield, transversely of said barrier and between certain of said contacts for a short distance below the tops thereof, the shield having openings coinciding with the location of the fixed contacts, and a plurality of groups of electrically connected bifurcated switch blades having depending tongues adapted to pass through the openings in the shield on opposite sides of the barrier to effect simultaneous multiple make and break of electrical connection between complementary groups of contacts on opposite sides of the barrier.

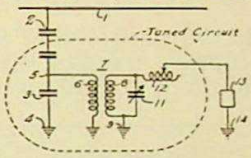
2,310,097

POTENTIAL DEVICE

Paul O. Langguth, Irwin, and Edwin L. Harder, Forest Hills, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 31, 1940, Serial No. 348,774

9 Claims. (Cl. 171—119)



1. In combination, a source of alternating electromotive force, a plurality of condensers connected to said source, a transformer having a primary winding and a secondary winding, said primary winding being connected to said condensers, a voltage-responsive instrument connected to said secondary winding, and means for selectively adjusting the reactance of said transformer to provide the necessary tuning reactance for maintaining the desired voltage ratio and phase difference between the voltage on the primary and on the secondary of the transformer.

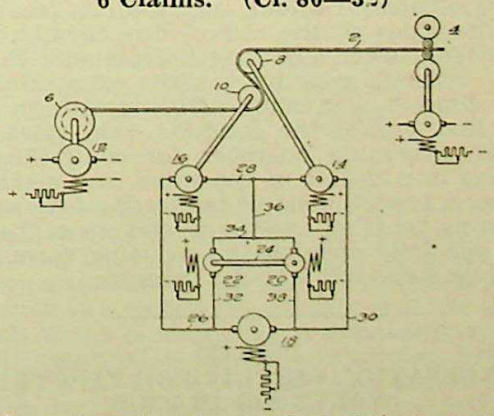
2,310,098

TENSION ROLL DRIVES

Gerhard P. Lessmann, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 5, 1941, Serial No. 401,160

6 Claims. (Cl. 80—32)



1. In a strip tension control system, a pair of adjacent work devices successively acting upon a moving strip of material as it extends between the work devices, a pair of tensioning rolls disposed between the work devices and over which the strip passes in a partial wrap as it passes

between the work devices, a pair of main dynamo-electric machines each associated with a different one of said tensioning rolls, means mechanically connecting the associated tensioning rolls and dynamo-electric machines in driving relation with each other, circuit means connecting said main dynamo-electric machines to a source of power in series circuit relation, a pair of auxiliary dynamo-electric machines, means mechanically connecting said auxiliary dynamo-electric machines in driving relation with each other, and circuit means electrically connecting each of said auxiliary dynamo-electric machines in parallel circuit relation with a different one of said main dynamo-electric machines.

2,310,099

DEODORANT

Charles E. Loetel, Kansas City, Kans., assignor to Anderson-Stolz Corporation, Kansas City, Mo., a corporation of Missouri

No Drawing. Application September 1, 1939, Serial No. 293,038

8 Claims. (Cl. 167—17)

1. A deodorant comprising an aqueous solution of potassium mercuric iodide stabilized with a caustic alkali.

5. The method of deodorizing an odorous material which comprises treating said material with an aqueous solution of potassium mercuric iodide.

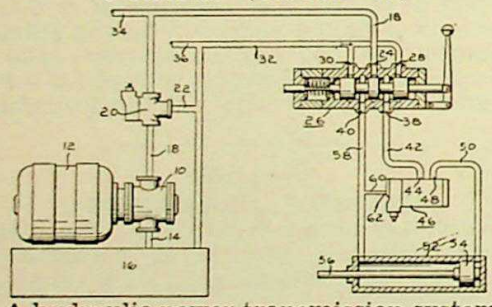
2,310,100

POWER TRANSMISSION

Clifford V. Losey, Detroit, Mich., and Rudolf E. Esch, Cleveland, Ohio, assignors to Vickers Incorporated, Detroit, Mich., a corporation of Michigan

Application February 12, 1940, Serial No. 318,570

6 Claims. (Cl. 121—38)



1. A hydraulic power transmission system comprising in combination with a fluid motor and a source of pressure fluid, two conduits leading to opposite sides of the motor, directional control means for selectively directing pressure fluid to either conduit selectively while exhausting the other conduit, a pressure reducing valve in series in a first one of the conduits, said valve having an operating chamber for controlling the opening and closing of the valve, and means including a branch conduit connecting between the operating chamber and the second one of the conduits for fully opening the reducing valve while the second conduit is under pressure.

2,310,101

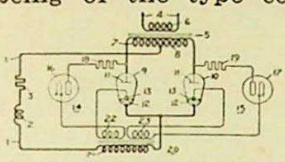
EXCITATION CIRCUIT FOR ELECTRIC VALVE APPARATUS

Harold W. Lord, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application March 25, 1942, Serial No. 436,140

8 Claims. (Cl. 175—363)

1. In combination, an alternating current circuit, a load circuit, bi-phase electric valve translating apparatus connected between said circuits and comprising a pair of windings displaced 180 electrical degrees relative to the voltage of said alternating current circuit and including a pair of electric valve means each associated with a different one of the windings, said electric valve means each being of the type comprising an



anode, a cathode and a control member of the immersion-ignitor type associated with said cathode, and an inductive device connected in series relation with the anode-cathode circuits of both of said electric valve means and said load circuit and comprising a pair of secondary windings respectively connected to the control members of the pair of electric valve means for producing voltages to energize said control members.

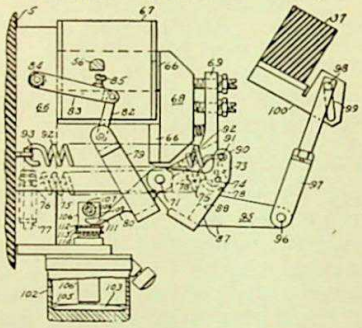
2,310,102

TIME-DELAYED UNDERVOLTAGE TRIPPING-MECHANISM FOR CIRCUIT BREAKERS

John W. May, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

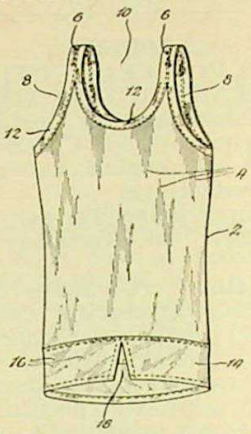
Application May 9, 1940, Serial No. 334,182

6 Claims. (Cl. 200—108)



1. A time-delayed drop-out mechanism comprising a clapper-type electromagnet having an electromagnet-frame and a movable armature-arm having a frame-engaging armature-portion, means for biasing said armature-arm toward an open position in opposition to the electromagnetic attraction, time-delay means for delaying the early stages of the opening-movement of the armature-arm, said time-delay means comprising a suction-type dashpot having relatively stationary and relatively movable normally-seated and substantially-contacting suction-surfaces, and loose-connection means connecting the movable element of said dashpot with said movable armature-arm in such manner that, when the armature-portion of the armature-arm is released by its electromagnet-frame, the loose-connection of the loose-connection means permits the armature-arm to move substantially unimpededly a very slight amount away from its seated engagement with the electromagnet-frame, whereupon the movable element of the dashpot restrains the further movement of said armature-arm until the suction-action is substantially broken at said suction-surfaces, after which the dashpot permits the armature-arm to again move substantially unimpededly whereby the armature-arm effects a rapid flying-open movement in the rest of its opening-movement away from the electromagnet-frame.

2,310,103
GARMENT
Dorothy L. McDonald, Evanston, Ill.
Application September 14, 1940, Serial No. 356,738
10 Claims. (Cl. 2—113)

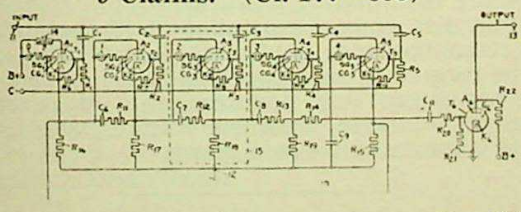


1. A garment comprising a tubular body portion of a flexible fabric open at the lower end having arm and neck openings adjacent the upper end and having a direction of maximum stretch extending substantially circumferentially thereof, and a flexible fabric band provided at the lower peripheral edge of said open end, the direction of maximum stretch of the fabric of said band being disposed at an angle oblique to the direction of maximum stretch of the fabric of said body portion.

2,310,104
WELDING ALLOY
William C. McLott, Grand Rapids, Mich.
No Drawing. Application August 6, 1941, Serial No. 405,625
3 Claims. (Cl. 75—126)

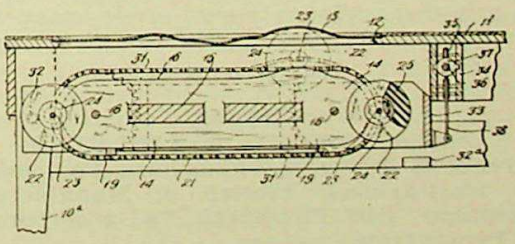
1. A temperature resisting, hard and tough alloy of iron alloyed with tungsten approximating between 18 to 22%, molybdenum 7 to 8%, chromium 4 to 5%, and boron 2 to 2½%, carbon being substantially 0.7 to 0.9% and columbium 0.2 to 0.3%.

2,310,105
COUNTER CIRCUIT
Philip C. Michel, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 16, 1941, Serial No. 388,820
9 Claims. (Cl. 177—353)



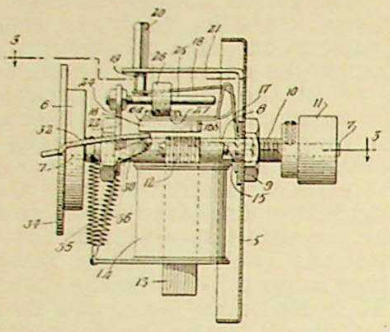
1. A counter circuit comprising a plurality of gaseous discharge devices including an initiating discharge device, an extinguishing discharge device, and one or more intermediate discharge devices, each discharge device having an anode, a cathode and a control electrode, an input terminal adapted to have electrical impulses to be counted applied thereto, a ground terminal, an output terminal, an anode voltage source terminal, a negative bias voltage source terminal, a plurality of low-current-drain indicators equal in number to the said gaseous discharge devices each connected between the anode and the cathode of one of said discharge devices, a plurality of cathode resistors each connected between one of said cathodes and said ground terminal, substantially non-conductive couplings between said input terminal and said control electrodes, low conducttance connections between said bias voltage terminal and said control electrodes, a connection between said anode voltage terminal and the anode of said initiating discharge device, a plurality of connections each between the cathode of one discharge device and the anode of the next whereby all of the discharge devices are connected in series, the initiating discharge device being the first and the extinguishing discharge device being the last in the series, a resistor being included in the connection between the anode of the extinguishing discharge device and the cathode of the preceding discharge device, a plurality of connections each including resistance and capacitance in series between the cathode of each intermediate discharge device and the cathode of the preceding discharge device in the series, a relatively large condenser connected between the cathodes of the initiating and extinguishing discharge devices and a voltage-reversing coupling circuit having an input side connected between the anode of the extinguishing discharge device and the ground terminal and having an output side connected between the said output terminal and ground, whereby the anode-cathode circuit of the initiating discharge device is energized from said anode voltage supply terminal and each of the other discharge devices is energized by the voltage across the cathode resistor of the preceding discharge device in the series, and each electrical impulse applied to the input terminal fires the first discharge device in the series which is not already conducting until the extinguishing discharge device is caused to become conducting whereupon all of the discharge devices are extinguished, each of said indicating devices thus being energized only when the discharge device across which it is connected has voltage applied to the anode but is not conducting so that the number of impulses is indicated by which one of the indicating devices is energized.

2,310,106
MASSAGING APPARATUS
Jesse G. Miller, Tiffin, Ohio
Application November 18, 1940, Serial No. 366,136
4 Claims. (Cl. 128—58)



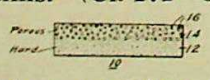
1. In a massaging device of the class described a supporting surface having an opening therethrough, a frame member supported below said opening and having spaced upper edge surfaces contoured to simulate the curvature of the spinal portion of the human body, a massaging roll rotatably mounted on a shaft extending between and supported on the edge surfaces of said frame member and having a portion of the periphery thereof adapted to project through the opening in the supporting surface, and means for moving said shaft along the upper edge surfaces of the frame member whereby the periphery of the roll is caused to travel along said opening in a path simulating the contour of a normal human spine.

2,310,107
VIBRATION MOTOR
Robert M. Miller, Philadelphia, Pa., assignor to Fox Products Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 3, 1941, Serial No. 400,885
18 Claims. (Cl. 172—126)



1. In a vibration motor having an electromagnetically vibrated armature constituting a driving element and a wheel constituting a driven element, mechanism for translating the vibratory motion of the armature into rotary motion of the wheel including a member pivotally mounted coaxially of the wheel and having means extended to abut the armature to receive motion therefrom, yielding means urging said member to move about its pivot axis in a direction to maintain abutment with the armature, whereby the vibratory motion of the armature is converted to oscillatory motion of said member, a clutch lever having opposed friction gripping surfaces cooperating with complementary surfaces of the wheel, the clutch lever being extended to abut the oscillative member, and the lever being oscillatable with reference to said oscillative member while in abutting relation and further having freedom for reciprocatory movement with respect to the oscillative member in a direction toward and away from the wheel to provide for self-adjustment of the lever as to its position of friction gripping engagement with the wheel, the clutch lever alternately engaging and releasing its friction grip on the wheel upon oscillation of the lever in opposite directions to thereby advance the wheel step-by-step, and yielding means associated with the clutch lever and serving to maintain it in abutting relation with the oscillative member and in that position of oscillation of the lever itself in which the friction gripping surfaces thereof are in engagement with the complementary surfaces of the wheel.

2,310,108
CARBON BRUSH CONSTRUCTION
Lawrence E. Moberly, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 23, 1940, Serial No. 366,926
7 Claims. (Cl. 171—325)

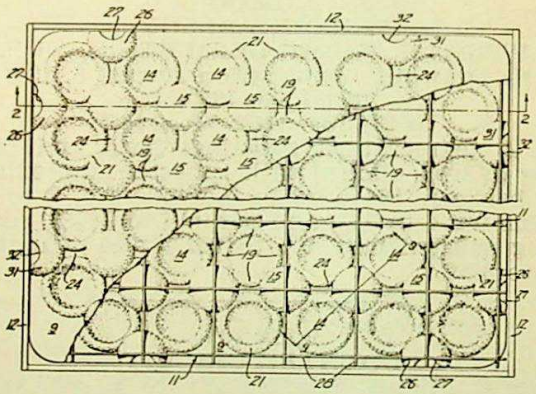


1. A carbon body comprising, in combination, a unitary mass composed mainly of carbon particles bonded together by means of a carbonized binder, the carbon body composed of one portion having a substantially uniform density and porosity and a second portion characterized by a distribution of cavities of larger size than the porosity in addition to the pores normally present between bonded particles, the cavities resulting from a distribution within the second portion of particles of a solid substance capable of volatilizing under heat treatment, the body being heat-treated to cause the solid substance to volatilize and escape, leaving cavities in the second portion.

2,310,109
METHOD FOR PRODUCTION OF CAPILLARY ACTIVE MEDIA
Richard Neu, Dessau, Anhalt, Germany, assignor, by mesne assignments, to "Unichem" Chemikalien Handels A.-G., Zurich, Switzerland, a corporation of Switzerland
No Drawing. Application January 15, 1938, Serial No. 185,227. In Germany January 16, 1937
17 Claims. (Cl. 260—294)

1. A process for producing capillary active compounds which comprises forming acid amine salts by reacting tertiary amines containing at least one alkyl radical of at least six carbon atoms and an aliphatic polycarboxylic acid readily reactive at an intermediate carbon atom of the class consisting of α, β unsaturated-, α monohalogenated-, and α and β monohydroxylated-carboxylic acids, and heating the acid amine salts formed to a temperature above 100° C. until a rearrangement of the atoms takes place and forms compounds of the betaine-type.

2,310,110
PACKING STRUCTURE FOR EGGS
Kitchener K. Newsom, San Francisco, Calif.
Application July 29, 1939, Serial No. 287,312
9 Claims. (Cl. 217—26)

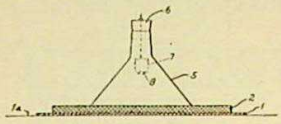


1. In an egg flat formed of sheet material and having a pattern on one side thereof wherein egg supporting portions depressed from a horizontal plane are bounded by a plurality of egg engaging portions disposed entirely above said plane, means for strengthening said flat comprising ridge means formed in said sheet material surrounding said egg supporting portions, said ridge means forming junctures between said depressed and raised portions above said plane.

2,310,111
METHOD OF DETERMINING THE POROSITY OF MATERIALS
Birger W. Nordlander, Schenectady N. Y., assignor to General Electric Company, a corporation of New York
Application September 21, 1940, Serial No. 357,828
4 Claims. (Cl. 73—51)

1. The method of graphically recording the porosity of sheet material which comprises bringing one side of said sheet material into intimate contact with a film containing a composition of selenium and sulphur capable of being

darkened by mercury and exposing the other side of said sheet material to a source of mercury



vapor to obtain on the film an image conforming to the relative size and distribution of the pores in the sheet material.

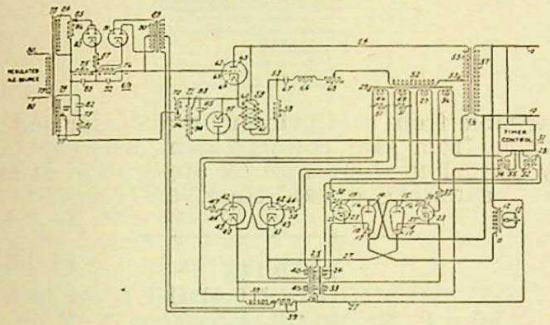
2,310,112

ELECTRIC CONTROL CIRCUIT

Harry L. Palmer, Schenectady, and George W. Garman, Glenville, N. Y., assignors to General Electric Company, a corporation of New York

Application July 1, 1941, Serial No. 400,684

7 Claims. (Cl. 171—119)



1. In combination, an alternating current supply circuit, an alternating current load circuit, reversely connected electric valve means interconnecting said circuits for transmitting energy therebetween, an auxiliary load circuit having electrical characteristics corresponding to the characteristics of said load circuit, reversely connected auxiliary electric valves interconnecting said source and said auxiliary load circuit, a control circuit for controlling the energy transmitted by said electric valves and said auxiliary electric valves comprising saturable transformer means for producing control voltages of peaked wave form, a static phase shifting circuit for controlling the phase of the peaked voltages produced by said saturable transformer means including a saturable inductive impedance device having a control winding, an electric valve including an anode, a cathode and a control member connected to control the energization of said control winding, means for controlling the energization of the control electrode of said last mentioned electric valve comprising means for producing a voltage dependent upon the magnitude of the current transmitted to said auxiliary load circuit, and means responsive to the voltage across said control winding for producing a voltage which opposes any change in the conductivity of said last mentioned electric valve caused by changes in the current transmitted to said auxiliary load circuit.

2,310,113

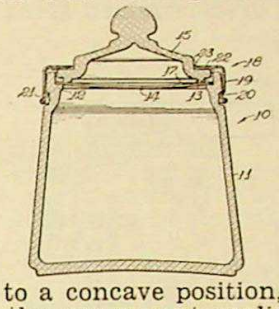
FOOD CONTAINER

Carl M. Plochman, Chicago, Ill.

Application March 8, 1941, Serial No. 382,417

5 Claims. (Cl. 215—38)

3. A container for food products including, in combination, an annular shoulder defining the mouth portion of said container, a disk-shaped sealing member formed of a flexible resilient material seated on said shoulder in closing relation to said mouth portion, a closure member having an annular depending flange adapted for engagement with said sealing member radially inwardly of said shoulder upon application of said closure member to the mouth of said container, and means for exerting a predetermined downward closing thrust on said closure member to a position in which said sealing member is flexed



downwardly to a concave position, such position constituting the permanent sealing position of said sealing member in which the peripheral edge thereof acts to exert, through its resiliency, a yieldable sealing thrust on said shoulder and from which position said peripheral edge is free to yield upwardly.

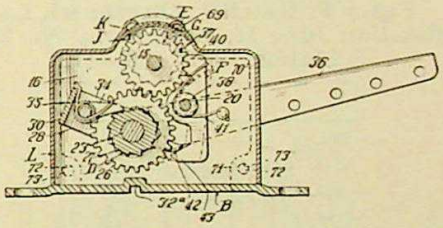
2,310,114

COUNTING DEVICE

Frederick A. Poole, Barrington, Ill., assignor to Production Instrument Company, Chicago, Ill., a corporation of Illinois

Application December 10, 1938, Serial No. 244,984

5 Claims. (Cl. 235—131)



1. In a counting apparatus, the combination with a supporting frame and a dial wheel including a gear wheel fixed thereto revolubly supported in the frame; of means for imparting limited forward movements to said dial wheel comprising an operating shaft mounted to oscillate in the frame, a gear wheel revolubly supported on the shaft and meshing with the first mentioned gear wheel, a ratchet wheel fixed to the second mentioned gear wheel, an arm fixed to the shaft and carrying a pawl for engagement with the ratchet wheel, whereby a partial rotation is imparted to said dial wheel during an arcuate movement of the shaft and arm in one direction, and a stop member pivotally supported for engagement with said first mentioned gear wheel and a portion of said oscillating arm.

2,310,115

VARIABLE SPEED PLANETARY TRANSMISSION FOR AUTOMOBILES

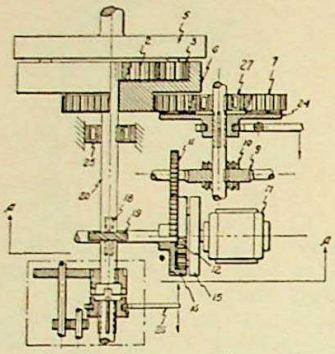
Ivan Peter Popoff, Lake, Wis.

Application June 21, 1939, Serial No. 280,219

4 Claims. (Cl. 74—282)

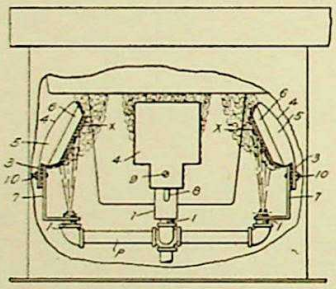
1. A variable speed transmission for motor vehicles comprising a main epicyclic gear train and an auxiliary epicyclic gear train, each epicyclic gear train consisting of a driving member, a driven member and a floating member, said driving member of the main epicyclic gear train being connected to the main source of power, said driving member of the auxiliary epicyclic gear train being connected to an auxiliary source of power such as an electric motor, said driven

members of both epicyclic gear trains being connected to the driven shaft of the vehicle, said floating members of both epicyclic gear trains being connected to one another through a worm gearing and a one-way clutch whereby at stand still of the vehicle and the engine running idle at/or below a predetermined speed said floating



members are not locked to equal speeds and when the predetermined engine speed is exceeded automatic locking of the one-way clutch takes place which locks the floating wheels to equal speeds whereby the vehicle starts moving at a speed depending on the amount the predetermined engine speed is being exceeded.

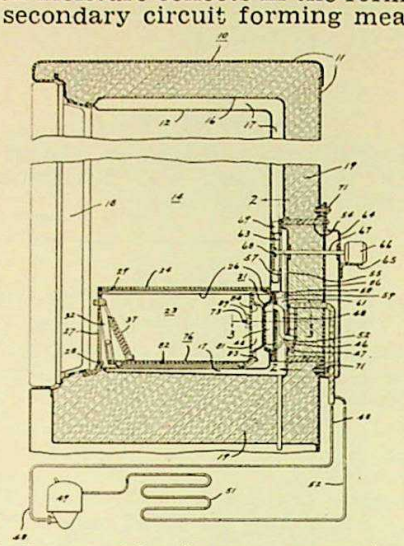
2,310,116
GAS BURNER
Peary F. Ratcliff, Shreveport, La.
Application June 16, 1938, Serial No. 214,015
3 Claims. (Cl. 158—113)



1. A gas burner comprising a tip in combination with a chambered flame deflector so aligned with the said tip as to deflect a flame coming from the tip, said chambered flame deflector being provided with a pair of outwardly extending, inwardly directed wall extensions adapted to deflect products of combustion and light and heat rays.

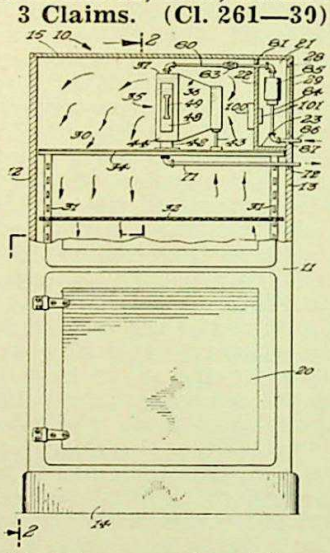
2,310,117
REFRIGERATING APPARATUS
Donald H. Reeves, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application April 25, 1941, Serial No. 390,373
9 Claims. (Cl. 62—116)

1. A refrigerating apparatus comprising in combination, a cabinet having a food storage chamber therein, an evaporator of a primary refrigerating system for cooling said chamber to a temperature above the temperature at which water freezes, means forming a compartment within said chamber, means within said compartment for normally maintaining the interior thereof at a temperature below the temperature at which water freezes, said last named means forming a closed secondary refrigerant circuit having a refrigerant condensing portion in intimate thermal contact with a part of said primary evaporator and a refrigerant evaporating portion upon which moisture collects in the form of frost, and said secondary circuit forming means being



detachable from said primary evaporator and removable from said compartment whereby frost may be melted therefrom by application of heat thereto exteriorly of said chamber.

2,310,118
HUMIDIFIER CABINET
John P. Reinhardt, Brooklyn, N. Y.
Application June 19, 1940, Serial No. 341,398
3 Claims. (Cl. 261—39)

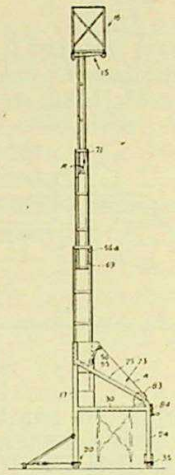


2. In combination, a cabinet having a door, a chamber within the cabinet, a wall of the cabinet having a door communicating with the chamber, said chamber being closed to the interior of the cabinet, a humidifier within said cabinet, a water inlet pipe connected to said humidifier, a magnetic valve on said inlet pipe and disposed within said chamber, said humidifier provided with a motor driven fan, and a humidostat in the interior of the cabinet and controlling said magnetic valve and motor.

2,310,119
EXTENSIBLE LADDER
John P. Reinhardt, Brooklyn, N. Y.
Application January 20, 1942, Serial No. 427,455
15 Claims. (Cl. 228—5)

12. An extensible ladder comprising a base having a vertical front leg, a vertical rear leg, and a horizontal member interconnecting the

upper end of the rear leg with a portion of the front leg, and an inclined member interconnecting the rear leg with an upper portion of the front leg, said ladder having a space below the



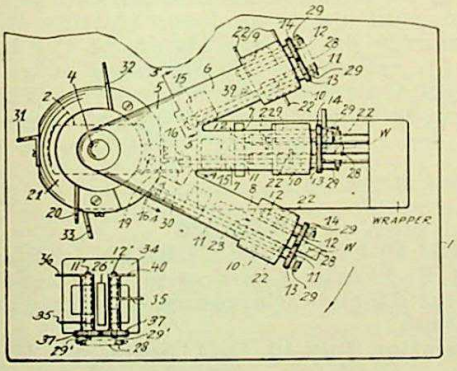
interconnecting portion and between said front and rear legs, sufficient to permit the ladder to straddle benches and the like furniture, and a plurality of extensible sections on the front leg of said base.

2,310,120

CIGAR AND FILLER TRANSFER DEVICE

Constantin Friedrich Röber and Alfred Böttger, Dresden, Germany; vested in the Alien Property Custodian

Application July 19, 1939, Serial No. 285,264
In Germany July 29, 1938
5 Claims. (Cl. 131—38)



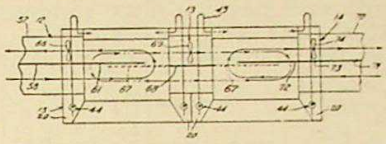
1. In a cigar making machine, a carrier for transferring fillers from one stage of operation of said machine to another, comprising a rotary arm having a plurality of radial branches, a gripper mounted in each branch arm, each gripper comprising a pair of shafts having gripping fingers thereon and intergeared for relative movement to swing the fingers into and out of gripping position, one of said shafts of each gripper extending inwardly of the arm, said inwardly extending shafts of the several grippers being consecutively elongated, a rocker arm mounted upon the inner end of each elongated shaft, and a plurality of stationary stops carried by the machine for engaging the rocker arms of the grippers to alternately swing said gripping fingers into and out of gripping position as the arm rotates past the various stages of operation of the cigar making machine.

2,310,121

APPARATUS FOR THE TRANSFER OF SENSIBLE AND LATENT HEAT

Paul A. Scherer, San Francisco, Calif.

Application December 4, 1939, Serial No. 307,478
14 Claims. (Cl. 62—139)



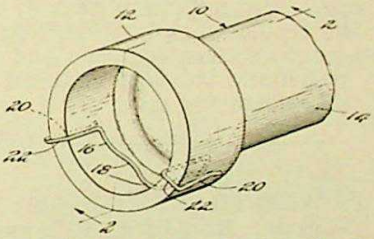
2. In apparatus for the transfer of sensible and latent heat, a sheet, means for providing a liquid film on one surface of the sheet, means for providing a liquid film of a lower vapor pressure on the other surface of the sheet, means for moving air against the first named film to produce an evaporative cooling action, and means for bringing the air to be treated against the second named film to give up heat and moisture, said sheet conducting heat from said first named film to said second named film, said surfaces of the sheets having a figuration which causes small volumes of the liquids to spread uniformly over the surfaces as self sustained flowing films.

2,310,122

SELF-CENTERING DEVICE FOR SEWER PIPES

Paul E. Scott, Chicago, Ill.

Application July 29, 1942, Serial No. 452,733
2 Claims. (Cl. 29—88.2)



1. In a self-centering device for sewer pipe the combination of a wire bent in the form of an inverted U at its opposite extremities and adapted to engage securedly the opposite portions of the bell end of a pipe, so that the inner portions of the inverted U and the intermediate portion between the respective inverted U portions form a self-centering device to sustain the spigot of adjacent pipe.

2,310,123

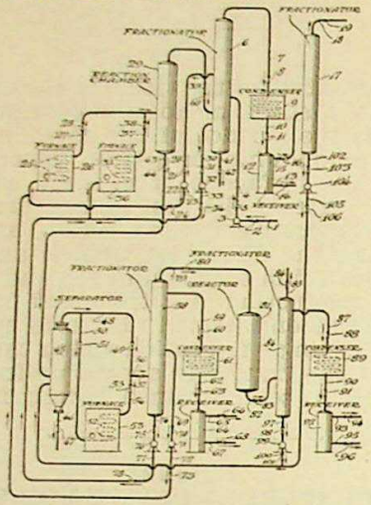
TREATMENT OF HYDROCARBON OILS

Jean Delattre Seguy, Washington, D. C., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application November 17, 1941, Serial No. 419,402
3 Claims. (Cl. 196—10)

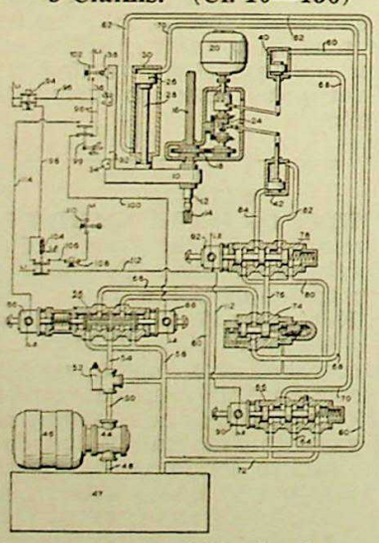
1. A hydrocarbon conversion process which comprises fractionating cracked vapors, formed as hereinafter set forth, and charging oil to separate light gases, heavy readily liquefiable gases and gasoline and to condense and separate light reflux condensate and heavy reflux condensate, subjecting said light and heavy reflux condensates to cracking under independently controlled cracking conditions, supplying resultant conversion products from both cracking steps to a reaction and separating zone and therein separating said cracked vapors from liquid residuum, combining at least a portion of said residuum with said heavy liquefiable gases, supplying the mixture to a reduced pressure vaporizing and separating zone and therein separating vapors

from non-vaporous residue, cracking said vapors independently of the condensate fractions, fractionating the resultant conversion products from the last mentioned cracking step independently of said cracked vapors to separate olefin-containing gases and gasoline and to condense and separate light and heavy reflux condensates, combining the light and heavy reflux condensate formed in the last mentioned fractionating step



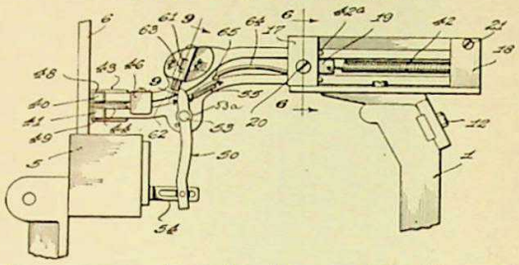
with the corresponding fraction separated in the first mentioned fractionating step for treatment as aforesaid, subjecting said olefin-containing gases to polymerization to form gasoline boiling polymers, separating polymers heavier than gasoline from the resultant polymerization products in an independent separating step and supplying the heavy polymers to said reduced pressure vaporizing and separating step.

2,310,124
POWER TRANSMISSION
Robert A. Shartle, Rockford, Ill., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application July 24, 1940, Serial No. 347,253
5 Claims. (Cl. 10—136)



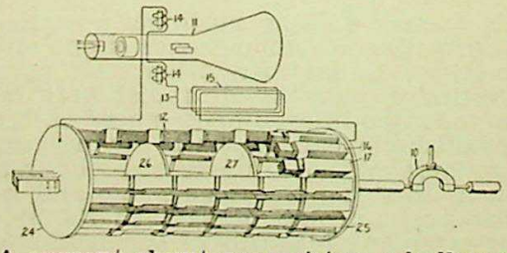
1. In a tapping machine having a rotatable and translatable tool carrying spindle the combination of hydraulically actuated means for translating the spindle, hydraulically actuated means for controlling the direction of rotation of the spindle, a control element arranged to be actuated when the spindle has been translated forwardly to a predetermined position, means controlled thereby for bypassing fluid around the spindle translating means, and means also controlled by said element for initiating forward rotation of the tool.

2,310,125
LOOM TEMPLE
Andrew B. Shelton, Columbus, Ga.
Application October 31, 1939, Serial No. 302,209
4 Claims. (Cl. 139—293)



1. In a loom temple, in combination with a loom having a lay beam, a temple supporting frame, a bracket mounting the frame on a loom, a spring body, means normally fixedly mounting the body on the supporting frame, said body having legs formed with extensions and said extensions having mounting ears, said extensions being projected to define parallel portions terminating in angularly disposed clamping jaws, means carried by one of said parallel portions for guiding the portions and clamping jaws, said spring body normally retaining the clamping jaws in closed positon, an operating lever pivoted on one of the mounting ears, a trigger housing mounted on the other of said mounting ears, an operating trigger carried in the housing, a contact bolt carried by the operating lever and engageable by a lay beam upon a forward beat-up of the lay beam for shifting the lever and engaging the trigger for supporting the jaws and releasing the selvage edge of cloth clamped therebetween, said operating lever shifting the trigger upwardly during the stroke of the lay, and means for retracting the operating lever for allowing the trigger to return to operative position, said jaws springing together upon release of the trigger for clamping the selvage edge of the cloth.

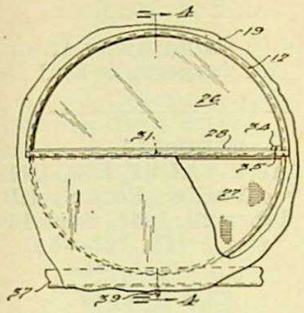
2,310,126
HIGH FREQUENCY CURRENT SHUNT
Wilfred F. Skeats, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application July 10, 1941, Serial No. 401,798
5 Claims. (Cl. 171—95)



1. A current shunt comprising a hollow cylindrical structure of conducting material having conductor material across each end partially supporting the cylindrical portion and forming the shunt terminals, the cylindrical portion being formed of a plurality of circumferentially spaced sections, each section comprising a stack of laminations stacked radially and insulated from each other, the laminations of a stack being transposed

with respect to each other in such a way that the laminations all have substantially the same average radial disposition in said cylindrical structure.

2,310,127
SEMICIRCULAR WINDOW AND SCREEN
Frank M. Smith, Dearborn, Mich., assignor to Stout Engineering Laboratories, Inc., Dearborn, Mich., a corporation of Michigan
Application August 7, 1940, Serial No. 351,752
4 Claims. (Cl. 160—19)



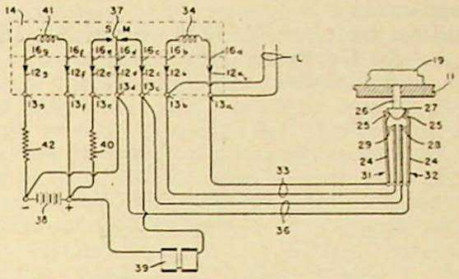
1. A closure for a semi-circular window embodying a circular frame of inwardly presenting channel section having a diametrically disposed channel element with projecting flanges, a semi-circular window glass in one portion of said frame, a semi-circular screen in the other portion of said frame, said glass and screen being retained in aligned relation by said channel, a pivot projecting through said channel element centrally of said frame and supported centrally of said semi-circular opening, finish elements at the inner and outer marginal edges of said opening having inwardly directed flanges disposed in alignment, and a semi-circular channel guide element joining said flanges and encompassing the edge of said frame.

2,310,128
OXYCHLORIDE COATING
George Sidney Smith, Oakland, Calif.
No Drawing. Application October 10, 1939, Serial No. 298,866
9 Claims. (Cl. 117—123)

1. The method of forming a cementitious coating on a base member comprising applying to the surface thereof an anhydrous mixture of zinc chloride dissolved in a volatile anhydrous solvent for the zinc chloride and zinc oxide, the proportions of zinc chloride, zinc oxide and solvent being such that a flowable mixture capable of brushing or spraying is produced, said mixture on volatilization of the solvent and in the presence of an aqueous medium forming zinc oxychloride; and exposing said anhydrous coating to the action of an aqueous medium in a quantity sufficient to form in situ a hardened zinc oxychloride coating.

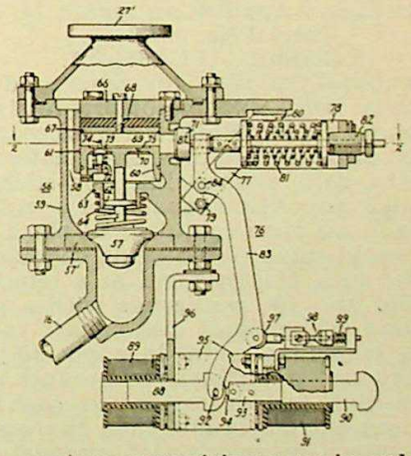
2,310,129
PRINTING TELEGRAPH APPARATUS
Kimmel A. Sylvester, Skokie, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application August 22, 1941, Serial No. 407,973
11 Claims. (Cl. 178—69)

1. In a telegraph system, a station, a plurality of terminals at said station, a telegraph line connected in series with a pair of said terminals, an auxiliary circuit associated with said pair of terminals to maintain continuity of said line at said station, a selector magnet at said station connected to another pair of said terminals, a second auxiliary circuit associated with said other pair of contacts to maintain a predetermined condition on said selector magnet, a line relay removably associated with said pairs of terminals, and means actuated by said relay upon the removal



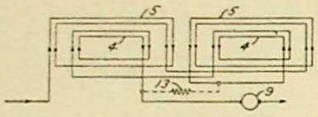
thereof from said pairs of terminals to disable said auxiliary circuits to close said line through said line relay, and to connect said selector magnet in circuit with said line relay whereby said selector magnet is conditioned in response to signals received over said line.

2,310,130
VALVE SYSTEM
Carl Thumim and Edward J. Frank, Yeadon, and Alexander C. Boisseau, Lansdowne, Pa., assignors to General Electric Company, a corporation of New York
Original application February 6, 1940, Serial No. 317,564. Divided and this application July 16, 1940, Serial No. 345,810
1 Claim. (Cl. 137—139)



A valve system comprising a main valve member for controlling the flow of fluid between a source of fluid under pressure and a fluid passage, a piston operatively connected to said main valve member, a cylinder for said piston, means for closing one end of said cylinder to define a chamber in said cylinder having a minimum volume determined solely by the opening movement of said main valve member, said piston and cylinder being so constructed and arranged that the forces acting on said piston due to fluid under pressure are substantially neutralized during the closed position of said valve, a solenoid-operated pilot valve for substantially instantaneously releasing the fluid under pressure in said chamber to unbalance the forces acting on said piston and cause high-speed opening of said valve, means for limiting and cushioning the opening movement of said valve, and a check valve in said piston arranged to engage with said last-mentioned means to cause opening thereof when said main valve is in the open position, whereby high-speed closing of said main valve is obtained upon closing of said pilot valve.

2,310,131
WINDING FOR SINGLE-PHASE SERIES MOTORS
Karl Töfflinger, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 16, 1940, Serial No. 361,337
In Germany July 25, 1939
8 Claims. (Cl. 172—276)



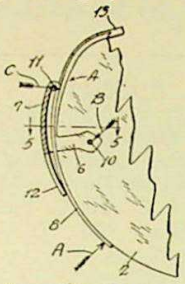
1. In an alternating-current, single-phase series motor having a stator member and a rotor member, a plurality of motor-winding coils carried by said stator members, said coils being connected together in series and being disposed on the stator to form a single multi-polar main exciting winding for the motor, and means connected across a part of said winding to modify the magnitude and phase of the current therein, said part of the winding including coils lying in corresponding positions in different poles of the winding.

2,310,132
MATERIAL FOR CONSTRUCTION OF ARTIFICIAL DENTURES AND PROCESS OF PRODUCING THE SAME
Leif Underdahl, Portland, Oreg.
No Drawing. Application March 14, 1939, Serial No. 261,843
2 Claims. (Cl. 260—84)

1. A material suitable for making dentures, said material being capable of progressive polymerization at a temperature not exceeding 100° C. in from 10 to 30 minutes, said material consisting of a soft, rubber-like, non-sticky complex plastic composition capable of being formed by mixing in an open container in about 3 minutes time, said composition being capable of being molded in a plaster mold at a temperature between 50° and 70° centigrade with a pressure of less than 500 pounds per square inch and hardening in boiling water in about 30 minutes time to produce a bubble-free product characterized by high fatigue resistance, high impact strength and extremely low mold changes, comprising a mixed-polymerization product formed from a preponderating quantity of vinyl chloride and acrylic acid as an entity, together with 22 to 37.5 percent of the total compound of monomeric methyl methacrylate.

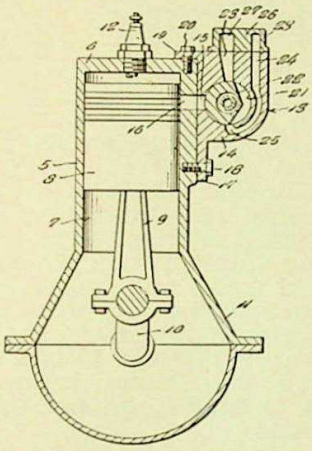
2,310,133
LENS MOUNTING
William R. Uhlemann, Evanston, and Richard H. Uhlemann, Antioch, Ill., assignors to Uhlemann Optical Co. of Illinois, Chicago, Ill., a corporation of Delaware
Application September 11, 1940, Serial No. 356,261
8 Claims. (Cl. 88—41)

5. In combination, an ophthalmic lens, a temple supporting wire shaped to follow the contour of the lens edge between the nasal and temporal sides thereof, pivotal means for connecting said wire and lens for relative pivotal movement about an axis transverse to the general plane of the lens, stop means for limiting said pivotal movement to cause the wire to align with the peripheral edge of the lens, and spring means for urging the wire and lens to said stop-limited position, said spring being yieldable to enable the



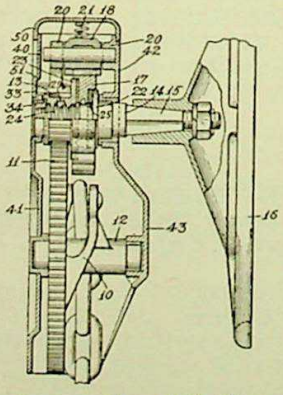
edge of the lens to swing away from the temple supporting wire for inspection and cleaning.

2,310,134
ROTARY VALVE ENGINE
Wilfred Fred Vallier, Fort Smith, Ark.
Application October 29, 1941, Serial No. 417,031
2 Claims. (Cl. 123—59)



1. In an internal combustion engine, a rotary valve assembly including a block, a rotary valve element operative in the block, an elongated tubular support extending through the rotary element, spacer means between the support and the rotary element to define oil spaces, an oil supply to one end of the support, said support having openings therein to permit oil to pass into the said oil spaces.

2,310,135
RAILWAY CAR HAND BRAKE
Edwin E. Van Cleave, Chicago, Ill.
Application August 13, 1941, Serial No. 406,654
10 Claims. (Cl. 74—505)



1. In a railway car hand brake provided with winding mechanism, the combination of an operating shaft having a collar, a pinion threaded

on said operating shaft and having a collar, a ratchet mounted on said shaft between said collars and adapted to be clamped to the pinion collar when the operating shaft is rotated in one direction relative to the pinion, and means to facilitate turning movement of the shaft collar relative to the ratchet to release the pinion, said means being interposed between said shaft collar and the ratchet and comprising a pair of composition disks respectively bearing against the shaft collar and the ratchet, and a ground steel disk interposed between the composition disks.

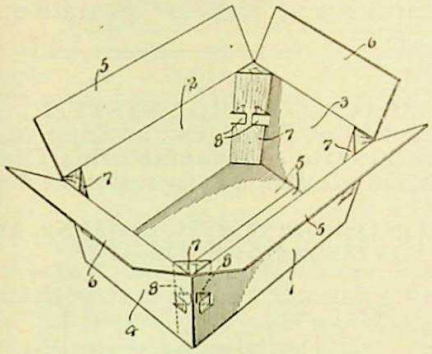
2,310,136

CONTAINER

Neil P. Van Wingen, Grand Rapids, Mich., assignor to American Box Board Company, Grand Rapids, Mich., a corporation of Michigan

Application May 2, 1940, Serial No. 332,927

1 Claim. (Cl. 229—49)



In combination with a cardboard box having a vertical corner formed by the juncture of two vertical sides, of a wooden corner post substantially the same height as the box and triangular in cross section, said post being located at said corner with two of its sides in contact with the respective sides of the box, a tongue cut from the material of each side of the box having one portion integrally joined therewith, each tongue having its free portion cut from that part of the side extending toward the corner of the box and each tongue overlapping the diagonal surface of the corner post, the corners of the corner post adjacent said diagonal surface fitting closely adjacent the juncture between the flaps and their respective sides.

2,310,137

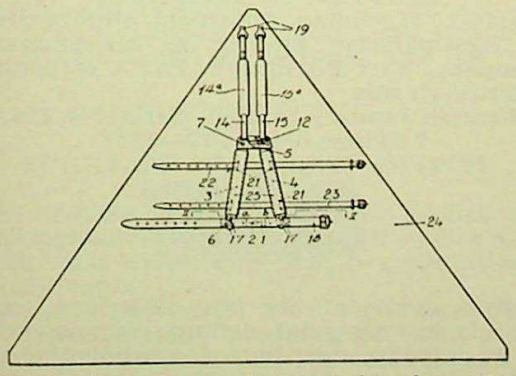
SUPPORTING FRAME FOR RUCKSACKS AND THE LIKE

Ernst Harald Wallin, Arvika, Sweden

Application October 18, 1939, Serial No. 300,007

In Sweden March 23, 1938

1 Claim. (Cl. 224—9)



A supporting frame for a rucksack or the like having sleeves fastened thereto, comprising a hip harness, two substantially vertically extending rails adapted to be inserted into said sleeves, said rails having their lower ends flexibly connected with said hip harness, a cross piece connecting said rails at points spaced from said lower ends, said cross piece being provided with an elongated recess at substantially right angles to said rails and having a number of smaller recesses formed in one of the longer edges of said recess, a pin on one of said rails, said pin being insertable in any selected one of said smaller recesses, a member insertable in said elongated recess to fill the major portion thereof and to lock said pin in said selected recess, shoulder straps each having one end thereof connected to said cross piece, and means at the other end of each of said shoulder straps to engage said hip harness.

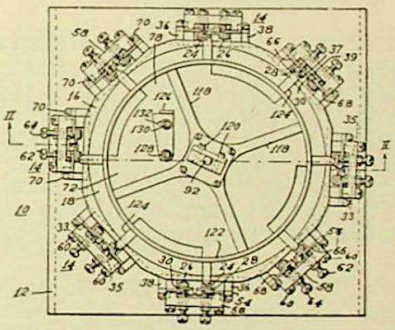
2,310,138

ELECTRICAL SWITCHING APPARATUS

Charles C. Whittaker, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 23, 1941, Serial No. 416,174

9 Claims. (Cl. 200—104)



1. In a switching apparatus, in combination, a plurality of movable contact members disposed in spaced relation to one another, a fixed contact member disposed to receive the movable contact members, a permanent magnet disposed to be actuated along a predetermined path, and means for moving the permanent magnet, the permanent magnet effecting a movement of the movable contact members to engage the fixed contact member in a predetermined sequence, the permanent magnet also being of a size sufficient to overlap two of the movable contact members as the magnet is moved along the predetermined path to maintain at least one of the sequentially movable contact members in engagement with the fixed contact member at all times during a movement of the magnet.

2,310,139

SYNCHRONOUS MOTOR CONTROL

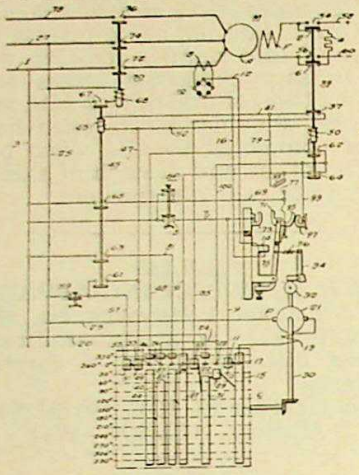
William R. Wickerham, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 9, 1941, Serial No. 373,854

7 Claims. (Cl. 172—289)

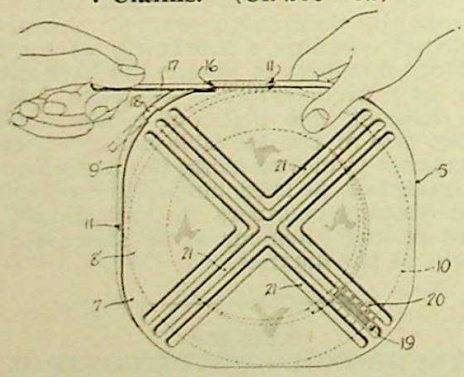
2. In an electric starting control system for a synchronous motor, in combination, a synchronous motor having conventional starting windings, armature windings, and field windings; a source of alternating current; switching means for connecting the armature windings to the source of alternating current to start the operation of the motor, by means of the starting windings, as an induction motor; a source of direct

current; field switching means for connecting the field windings to the source of direct current, and control means for controlling the instant of operation of the field switching means, said control means comprising; a relay; an actuating coil for the relay, said actuating coil being so connected to the armature windings of the motor to be responsive to the envelope current of the motor armature; calibrating means, set in operation by



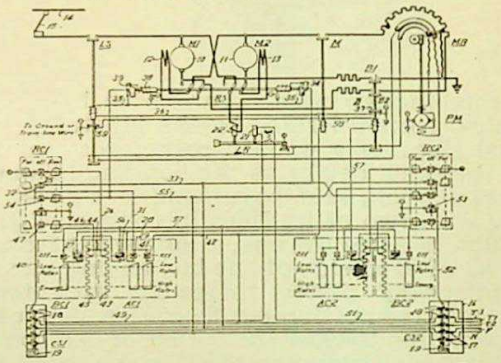
a drop-out of said relay at a predetermined drop in envelope armature current, adapted to increase the sensitiveness of said relay so that it becomes responsive to the frequency of the envelope current whereby said relay is caused to again pick up and then drop out at a low current point of a low frequency of the envelope current; and means, responsive to the last mentioned drop-out of the relay, for effecting operation of the field switching means.

2,310,140
BAND SAW PACKAGE
Robert J. Wilkie, Minneapolis, Minn., assignor to Continental Machines, Incorporated, Minneapolis, Minn., a corporation of Minnesota
Application June 25, 1941, Serial No. 399,655
7 Claims. (Cl. 206—52)



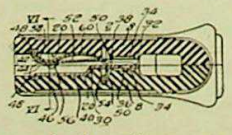
1. A saw band package of the character described comprising: complementary shallow box sections telescoped flatwise one within the other and both sections having flat bottom walls and integral side walls, the side walls of the two sections having aligned openings; a coil of highly springy metal saw band in the box with its outer coil frictionally and tangentially engaging the side walls of the inner box section and the outer end portion of the coil extending tangentially therefrom to project through the aligned openings to enable a length of coil to be pulled out of the box against the tendency of the expansive force of the coiled band to hold the same in place; and interlocking connections between the side walls of the box sections for holding the sections together, said interlocking connections each comprising, incisions in portions of the overlapped side walls extending transversely to the direction of telescoping engagement of the box sections; and nesting male and female indentations in said side wall portions each bounded along one edge by the incision in its side wall portion, the incision formed edges of the indentations facing toward the marginal edge of the side wall having the female indentation, and the incision formed edge of the female indentations being spaced from the incision formed edge of its side wall portion a distance at least equal to the thickness of the projecting edge portion of the male indentation to accommodate the same therebetween, said incisions being of different shapes so that the incision formed edge portion of the male indentation overlaps the incision formed edge portion of the side wall having the female indentation whereby the side walls of the box are held together against flatwise and edgewise separation.

2,310,141
MOTOR CONTROL SYSTEM
Norman H. Willby, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 18, 1941, Serial No. 415,585
15 Claims. (Cl. 172—179)



1. In a motor control system the combination with a plurality of electrically-propelled vehicles, of a motor for driving each one of the vehicles, means on each vehicle for controlling the motor current, a current limit relay on each vehicle for controlling the operation of said means, a loading coil on each relay for adjusting the relay, all of said loading coils being connected in series-circuit relation, and means for energizing said series circuit through said loading coils.

2,310,142
ELECTRICAL APPLIANCE
Kenneth L. Woodman, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 29, 1941, Serial No. 376,425
7 Claims. (Cl. 173—332)



1. In a device of the type described, means of insulating material defining a passageway open at opposite ends thereof, a conducting strip positioned at one side of said passageway adja-

cent one end thereof, conducting means adapted to be connected to said strip and extend out through the other end of said passageway, and an outwardly bowed, resilient strip in said one end of said passageway and having at least one end thereof adapted to cooperate with a contact inserted in said one end of said passageway to maintain said contact in pressure engagement with said strip, and having the other end thereof extending through an aperture in said strip and into a cavity in the wall of said passageway.

2,310,143

DYESTUFFS OF THE ANTHRAQUINONE SERIES

Alexander J. Wuertz and Myron S. Whelen, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 26, 1941, Serial No. 385,304

1 Claim. (Cl. 260—367)

The water soluble sulfonation derivative of 4 - amino - 4′ - hydroxy - 1,1′ - dianthraquinonylamine which dies wool from the usual acid bath in clear strong bluish gray shades of good fastness properties.

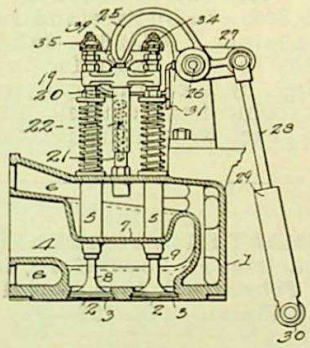
2,310,144

VALVE COOLING MEANS

Frank B. Yingling, Hamilton, Ohio

Application June 3, 1941, Serial No. 396,466

2 Claims. (Cl. 123—177)



1. In an internal combustion engine the combination with a pair of spaced hollow exhaust valves mounted for reciprocatory movement each valve having a tubular stem open at its upper end, and means for supporting and guiding the reciprocal movement of the valves, of a pair of spaced upright brackets adjacent the valves, a liquid cooling trough supported on the brackets, means for supplying liquid to the trough, and a stationary pipe depending from said trough and extending through each of the tubular stems respectively, for the supply of a cooling liquid from said trough to the head of said valve, said liquid overflowing through the upper end of the valve stems.

2,310,145

SINGLE OR POLYPHASE SWITCH ARRANGEMENT

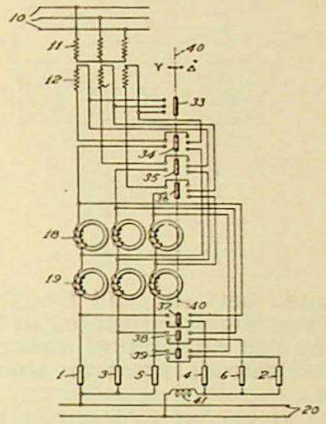
Marcel Zühlke, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 26, 1940, Serial No. 362,987

In Germany November 28, 1939

3 Claims. (Cl. 175—363)

1. A conversion system for transferring electric energy between a polyphase alternating-current circuit and a direct-current circuit comprising a polyphase transformer having windings connected to the polyphase circuit and windings for connection to the direct-current circuit, switching means for connecting said second mentioned windings either in polygon or in star, two switching contactors bridge connected between each effective phase terminal and the direct-current circuit, said switching contactors being con-



nected to opposite sides of the direct-current circuit and being alternatively periodically conductive, two saturable commutating chokes connected between each phase terminal and the associated contactors and switching means for establishing a bridge connection between the phase terminal and the contactors either intermediate the reactors or outside the reactors, and an interlock between said bridge connecting means and said switching means.

2,310,146

MIXED ETHER-ESTERS OF CASHEW NUT-SHELL LIQUID AND PREPARATION

Solomon Caplan, New York, N. Y., assignor to The Harvel Corporation, a corporation of New Jersey

No Drawing. Application November 28, 1939, Serial No. 306,495

7 Claims. (Cl. 260—473)

1. The method of producing mixed ether-esters which comprises bringing cashew nut shell liquid into contact with a hydrocarbon ester of a mineral acid under alkaline conditions, said ester of a mineral acid being present in amount substantially sufficient to supply a hydrocarbon radicle for each of the hydrogen radicles of the phenolic hydroxyl groups and the carboxylic hydroxyl groups of the anacardic acid and cardol substituents of cashew nut shell liquid.

7. Mixed ether-esters of the carboxylic acid phenols of material selected from the group consisting of cashew nut shell liquid, marking nut shell liquid, japanese lac, urushiol and cardanol.

2,310,147

ELECTRON DISCHARGE DEVICE

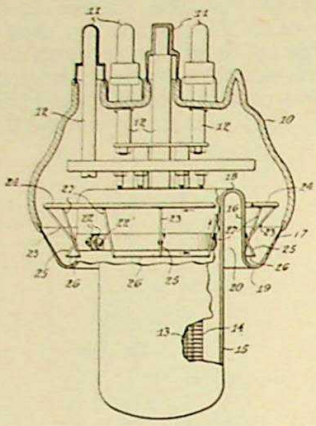
Hampton Jennings Dailey, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 9, 1941, Serial No. 414,226

9 Claims. (Cl. 250—27.5)

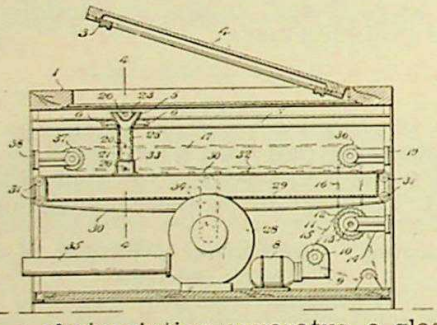
1. An electron discharge device comprising metallic parts having areas constituting electrodes and an envelope formed partially by a metallic part and partially by a glass part with the

metallic part sealed at a margin thereof to an edge margin of the glass part, one of said parts providing a trough physically remote from said electrode areas, said one part also providing a



ridge interposed between said trough and electrode areas, and a getter situated in said trough on one side of said ridge out of direct emanating path to said electrode areas on the other side of said ridge.

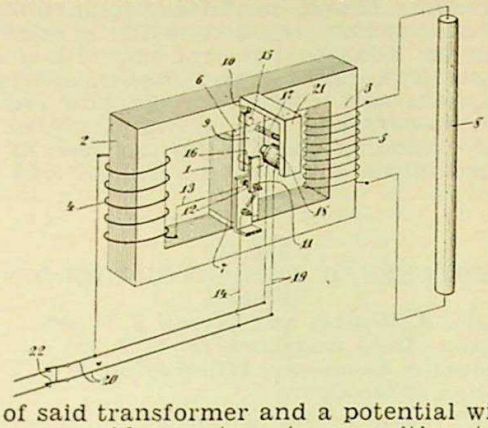
2,310,148
PHOTOPRINTING DEVICE
Josef Horn, Wiesbaden-Biebrich, Germany; vested in the Alien Property Custodian
Application March 6, 1941, Serial No. 381,999
In Germany February 26, 1940
6 Claims. (Cl. 95—73)



2. In a photoprinting apparatus, a glass plate serving for placing the copying material thereon, a luminescent lamp in the form of a tube evolving much heat but being sensitive to cooling near said glass plate and extending along said glass plate, a reflector surrounding said lamp so as to concentrate the light of the lamp on said glass plate, a casing surrounding said reflector in such a manner that the edges of the reflector and the edges of said casing form nozzles near said glass plate, which nozzles are directed towards said glass plate, the said lamp, reflector and casing being rigidly connected with one another, an airing device joined with the space between said reflector and said casing and means for moving the said system consisting of said lamp, reflector and casing to and fro along said glass plate perpendicularly to the axis of said lamp.

2,310,149
AUTOMATIC CIRCUIT CONTROLLER FOR GASEOUS DISCHARGE DEVICES
Julian A. McDermott, Elmhurst, N. Y.
Application September 9, 1940, Serial No. 355,902
7 Claims. (Cl. 171—119)

1. An automatic circuit controller for gaseous discharge devices, comprising a transformer having a magnetic shunt, an armature under control of flux in said magnetic shunt, means governed by said armature for controlling the primary cir-

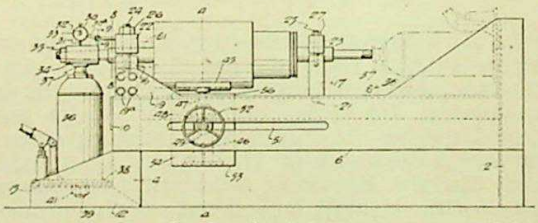


cuit of said transformer and a potential winding acting on said armature in opposition to said shunt magnetic flux and connected across the primary circuit of the transformer.

2,310,150
DERIVATIVES OF THE CYCLOPENTANO-POLYHYDROPHENANTHRENE SERIES AND PROCESS OF MAKING SAME
Karl Miescher, Riehen, and Albert Wettstein, Basel, Switzerland, assignors, by mesne assignments, to Ciba Pharmaceutical Products, Incorporated, Summit, N. J., a corporation of New Jersey
No Drawing. Application February 19, 1940, Serial No. 319,806. In Switzerland July 12, 1937
7 Claims. (Cl. 260—397.4)

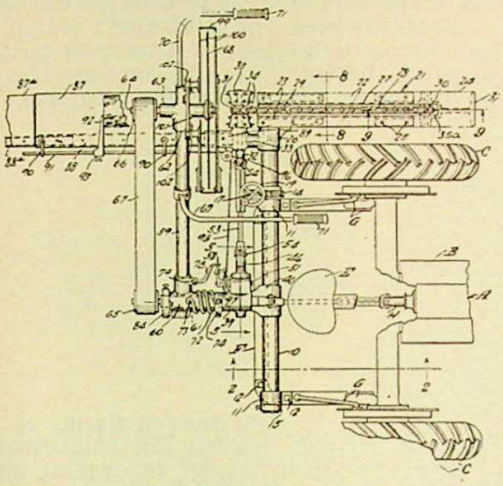
1. A process for the manufacture of derivatives of the cyclopentano-polyhydrophenanthrene series, comprising causing an aldehyde of this series to react with an aliphatic diazo compound.

2,310,151
SHAFT STRAIGHTENER
Demetrios K. Pope, Gary, Ind.
Application February 9, 1940, Serial No. 318,175
1 Claim. (Cl. 153—52)



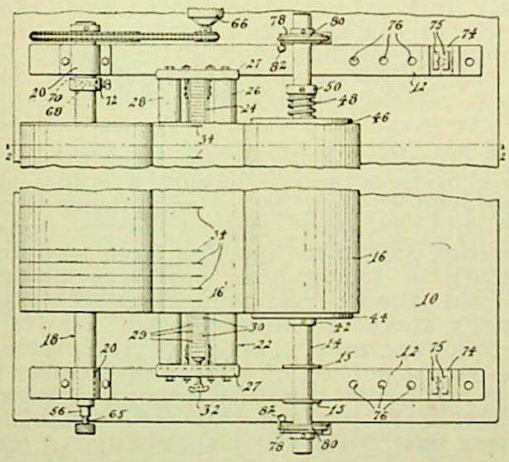
An armature shaft straightener, comprising a pair of axially spaced horizontally alined bearings adapted to receive and support the armature shaft toward its ends, with the armature thereon located between the bearings and an end of the shaft projecting beyond one of said bearings, a cradle having means for raising and lowering it between the bearings and engageable with the lower side of the armature for placing the shaft in and removing it from said bearings, a gauge located at the outer side of one of said bearings and cooperable with the projecting end of the shaft at one side of its axis to indicate the radius on which the shaft is bent, and means located opposite to said gauge and cooperable with the projecting end of the shaft at the other side of its axis for applying a straightening force to said end of the shaft while the gauge cooperates therewith.

2,310,152
POWER SAW
Adolph Ronning, Minneapolis, Minn.
Application March 11, 1940, Serial No. 323,354
12 Claims. (Cl. 143—43)



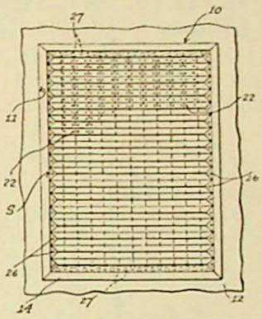
12. The combination with a tractor, of a timber saw operatively arranged on the tractor, a feed device operated by the tractor for feeding a timber to the saw, and a pickup means disposed for engagement beneath a timber and operative by forward travel movement of the tractor to elevate and guide the timber into operative engagement with the feed device.

2,310,153
MACHINE FOR CUTTING FLEXIBLE SHEET MATERIAL
Albert D. Rosenfarb, Winthrop, Mass.
Application January 1, 1942, Serial No. 425,326
12 Claims. (Cl. 164—36)



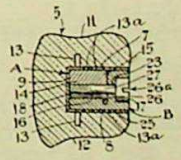
1. In a machine for cutting sheet material, a cutter holder past which the sheet material in spread relation is to be drawn for the cutting, comprising a channel extending across and adjacent to the course of the sheet material; a multiplicity of elements resting on the bottom of the channel and slidable along the channel, said elements projecting uniformly out of said channel for constituting collectively a support for the sheet material at the region of cutting; clamping means for clamping said elements in mutually engaging relation in the channel; and cutter blades intervening between selected ones of said elements and clamped thereby close to the line of cutting by each blade, each blade having at least a part of a cutting edge toward the supply of material and projecting into the course of said material.

2,310,154
ACOUSTIC SCREEN
Vesper A. Schlenker, New York, N. Y.
Application August 9, 1941, Serial No. 406,229
4 Claims. (Cl. 181—31)



3. An acoustic device for interposition between one speaker and another to act as a partition between the two but permit the transmission of speech between them, comprising, a pair of overlying corrugated sheet members, the corrugations of one of said members extending substantially at right angles to those of the second member, a flat uncorrugated sheet sandwiched between the corrugated members and connected thereto at spaced intervals, said flat sheet being attached to the corrugated sheet members at the crests of the corrugations in said members to provide unsecured substantially square diaphragm sections in said flat sheet, the corrugated sheet members being each provided with a plurality of openings, the openings in one of said members being substantially in alignment with those in the other sheet, the interposed flat sheet being imperforate.

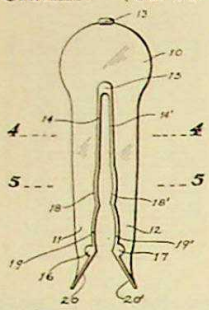
2,310,155
MEANS FOR INTERCHANGEABLY MOUNTING ARTIFICIAL TEETH
Isaac Slomovici, Montreal, Quebec, Canada
Application May 26, 1941, Serial No. 395,218
5 Claims. (Cl. 32—9)



1. A mounting for interchangeable teeth comprising a plate member adapted to be secured to abutment teeth bordering the gap to be filled so that said plate extends horizontally across said gap with one horizontally extending surface spaced a predetermined distance from the occlusal surfaces of the abutment teeth and the other horizontally extending surface spaced a predetermined distance from the portion of the gum lying between said abutment teeth, and a tooth-carrying backing and reinforcing member comprising a top wall, a bottom wall and a front end wall forming a housing adapted to be removably assembled with said plate member by sliding the top and bottom walls of the housing rearwardly over the top and bottom surfaces of the plate member and fastening means for releasably securing said members in their assembled relation, said fastening means comprising a screw adapted to be passed through an opening in one member and into threaded engagement with a

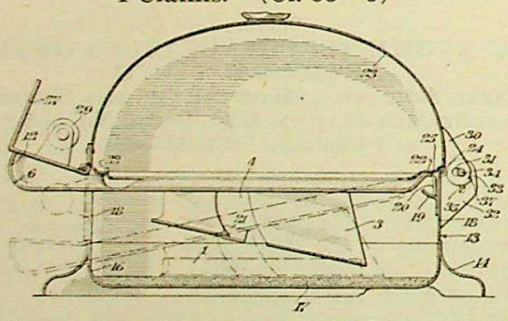
socket provided in the other member and a spring latch carried by one member and adapted to be forced into interlocking engagement with a part of the other member by engagement with said screw as the latter is screwed into said socket.

2,310,156
CLOTHESPIN
William W. van der Clute, Elizabeth, N. J.
Application March 10, 1941, Serial No. 382,569
4 Claims. (Cl. 24—255)



1. A plastic clothes pin type pin comprising a substantially flat member and including a headpiece of substantial area, and a pair of elongated closely adjacent legs extending from said headpiece and having a gap therebetween, a transverse U-shaped lip member disposed along the inner edges of said legs and extending beyond the surfaces of said flat member and providing oppositely disposed engaging surfaces of substantial area, the U-portion of said lip extending within a portion of said headpiece.

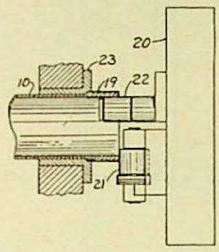
2,310,157
GRILL AND CHAFING DISH
Herbert Volks, New York, N. Y., assignor to Sulzer Freres, S. A., Winterthur, Switzerland, a corporation of Switzerland
Application May 14, 1940, Serial No. 335,044
4 Claims. (Cl. 53—5)



1. A chafing dish adapted to hold a cooking surface in either an inclined or horizontal position which includes heating means, walls open on one side permitting a portion of said cooking surface to project beyond the open side of the chafing dish, and bracket means attached to the side and rear walls of the chafing dish, said cooking surface resting on said brackets horizontally by supports dimensioned and positioned to clear the brackets and permit said surface to assume an inclined position when said surface is moved forward and off the side brackets.

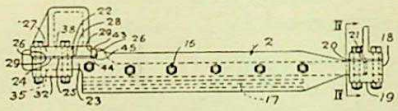
2,310,158
METHOD FOR FLANGING TUBULAR BODIES
Harold R. Austin, South Norwalk, Conn., assignor to The M. W. Kellogg Company, New York, N. Y., a corporation of Delaware
Application November 9, 1940, Serial No. 364,975
1 Claim. (Cl. 29—148.2)

The method of forming an integral flange at an end of a tubular body which comprises covering surface of the tubular body with a deep blanket of protective flux, discharging electric current through a gap beneath the surface of the flux blanket between the end of a metal electrode and the metal of the tubular body to fuse metal of the electrode and metal of the tubular body into a common metal deposit integrally united to the metal of the tubular body, moving the electrode over the surface of the metal of the tubu-



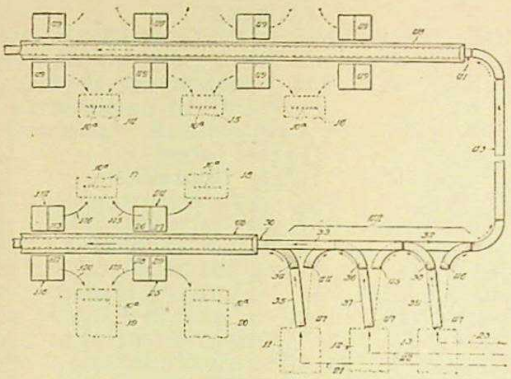
lar body required for the desired flange to form a continuous deposit, heating the thickened end of the tubular body to render the metal thereof sufficiently plastic for hot working, positioning the heated thickened end of the tubular body in a die with a portion of the heated thickened end extending outwardly from a face of the die disposed substantially transversely to the longitudinal axis of the tubular body, and deforming said extending portion to move it into contact with said face of the die primarily by bending.

2,310,159
LOCOMOTIVE CROSSHEAD GUIDE
James G. Blunt, Schenectady, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York
Application September 9, 1941, Serial No. 410,134
4 Claims. (Cl. 308—3)



1. A crosshead guide device for a steam locomotive under-structure having a frame and a power cylinder, said device comprising a crosshead guide member; and two connections for supporting said guide member from said under-structure in longitudinal operative alignment with said cylinder, said connections being longitudinally spaced from each other, one of said connections permitting longitudinal movement of the adjacent portion of said guide member relative to said under-structure responsive to expansion and contraction, and the other of said connections having vertically aligned parts, clamping means supporting the lower of said parts and provided with inner longitudinal side faces opposed to outer longitudinal side faces provided on said lower part, and bolts disposed at said side faces of said lower part exteriorly thereof and extending through said clamping means and the upper of said parts tightly securing said clamping means and said parts together, one of said parts being provided with a channel and the other of said parts fitting within said channel, said lower part being formed as an integral portion of said guide member, said upper part being adapted to be rigidly secured to said under-structure, and said channel extending transversely of said guide member holding said guide member fixed against longitudinal thrusts.

2,310,160
ARTICLE DISTRIBUTING SYSTEM
Morris Cohen, Kansas City, Mo., assignor to Interstate Bakeries Corporation, Kansas City, Mo., a corporation of Delaware
Application August 26, 1940, Serial No. 354,189
2 Claims. (Cl. 198—75)

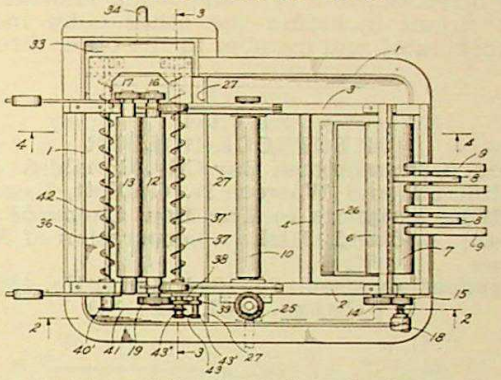


1. In an article distributing system embodying a plurality of article discharging devices, a plurality of article repository stations to be supplied with articles from said devices, conveyors for transporting the articles from the devices to the stations, and means for driving the conveyors, that improvement therein which comprises a pair of unitary conveyor frames each arranged adjacent a plurality of said stations, a plurality of conveyor tiers each comprising conveyors carried by each frame, tiers of the frames of a pair being arranged in pairs, each pair of tiers having a common level spaced vertically from the levels of the other pairs of tiers but vertically aligned therewith in said frames, tiers of the frames overlapping in the vicinity of said devices, a curved conveyor extending from each tier of each frame, said curved conveyers being arranged in pairs for the common levels respectively and each pair of curved conveyors for the respective frames being spaced longitudinally from another pair of said curved conveyors and directed toward one of said devices, and intermediate supplying means adjacent each said device and adapted to selectively convey articles from an adjacent discharging device to one or the other curved conveyor of a pair whereby the devices may serve both conveyor frames selectively and articles may move on the tiers of one or the other of the frames from the devices toward said stations, and adjacent each station served by a conveyor frame there may be moving simultaneously on each of said tiers of said frame articles discharged by said devices.

2,310,161
POLYMERIZATION OF OLEFINS AND CATALYST THEREFOR
Edwin T. Layng, Jersey City, N. J., assignor to The Polymerization Process Corporation, Jersey City, N. J., a corporation of Delaware
No Drawing. Application February 29, 1940, Serial No. 321,521
12 Claims. (Cl. 196—10)

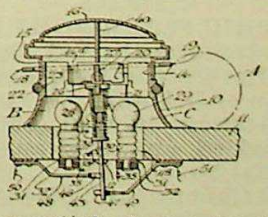
1. The method of converting olefinic hydrocarbons to hydrocarbons of higher boiling points which comprises contacting said olefinic hydrocarbons at elevated temperature with a catalytic contact material comprising a granular mass wherein each granule consists of a mixture of at least one metal pyrophosphate capable of reduction to a polymerization catalyst and a plurality of particles of finely divided carbonaceous material, the said granules of said mass being sufficiently large whereby fluid reactants may be passed through said granular mass at relatively high velocity and without excessive pressure drop, and the said carbonaceous material being sufficiently finely divided whereby it is capable of passing through a 200 mesh sieve.

2,310,162
APPARATUS FOR GALVANIZING
Elwin A. Matteson, Youngstown, Ohio, assignor to The Aetna Standard Engineering Company, Youngstown, Ohio, a corporation of Ohio
Application November 25, 1939, Serial No. 306,156
1 Claim. (Cl. 91—12.5)



In apparatus of the type described, a galvanizing pot, entering rolls for feeding metal sheets or the like into said pot, exit rolls for removing sheets from said pot, a dross sump disposed on one side of said pot adjacent one end of said exit rolls, communicating means between said sump and pot below the top edge of said sump and pot, a baffle extending across said pot between said entering and exit rolls and generally parallel thereto, said baffle having a lower edge above the bottom of said pot, a pair of feed screws extending generally parallel to said exit rolls and disposed at substantially the level of said communicating means below and one on each side of the pass line between said exit rolls, and means for driving said feed screws in proper direction to impart movement to material in said pot toward said dross sump.

2,310,163
BUMPER SWITCH FOR BALL ROLLING GAMES
Fred W. Moxey, Aurora, Ill., assignor to American Molded Products Co., Chicago, Ill., a corporation of Illinois
Application June 29, 1942, Serial No. 449,004
16 Claims. (Cl. 177—384)



5. A bumper switch device for use with a ball rolling game having a table top inclined slightly to horizontal and over which a ball is adapted to roll, said device being mounted upon the table top and including a hollow elongated body having an upwardly extending wall, an elongated member rockably supported on the upper end of said body at two longitudinally spaced apart transverse planes and having its marginal edge projecting outside of the wall of the body in position to be encountered by a ball, whereby said

member may be rocked laterally to either side about said rockable supports, incident to engagement by a ball, a cover element telescopically associated with the upper end of the body for closing the same and serving to confine said member in operative relation to the body, the top of said cover being formed of translucent material, partitioning means for separating the interior of the device to form two separate compartments in the device for accommodating electric lamps therein, and switch means below the table top including an operating element connected to said member and adapted for completing an electric circuit including one of said lamps, incident to rocking of said member in one direction, and for completing another electric circuit including the other lamp incident to rocking of said member in the other direction.

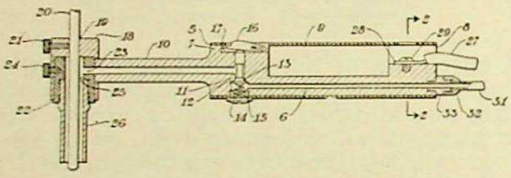
2,310,164

ELECTRODE HOLDER

James J. Prendergast, Bay City, Ronald A. Jones, Midland, and Watrous N. Guillett, Essexville, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

Application March 25, 1942, Serial No. 436,175

7 Claims. (Cl. 219—15)



2. An electrode holder for use in gas-shielded electric arc welding comprising, in combination: a hollow insulating handle; an electrically conducting gas conduit mounted within the handle and projecting beyond the end thereof; means for connecting the conduit to sources of gas and of electric current; an electrically conducting cuplike electrode head mounted on the projecting end of the gas conduit in electrical contact therewith, the hollow interior of the head being in communication with the gas conduit; means for retaining a welding electrode in the head in electrical contact therewith; and an electrode shielding tube mounted on the electrode head out of electrical contact therewith and projecting outwardly in position to surround a welding electrode secured in the head and to define therewith an annular gas passage in communication with the interior of the head.

2,310,165

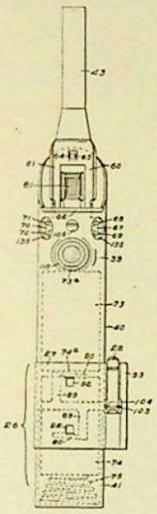
PHOTOGRAPHIC FLASHLIGHT EQUIPMENT

Oscar Steiner, Irondequoit, N. Y., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware

Original application July 19, 1940, Serial No. 346,395. Divided and this application April 18, 1941, Serial No. 389,157

12 Claims. (Cl. 67—31)

3. In a photographic flash synchronizer equipment for use with a camera having a casing, and having either or both a between-the-lens shutter and a focal-plane shutter, the following combination of parts, viz: a battery case having battery means and having means to support a flash-lamp; means for attaching said battery case to the camera casing; circuiting means operatively connecting the battery to the flash-lamp; said battery case consisting of two sections and a clamp member or ring having means for attaching the same to the camera casing, each of the said battery case sections and said clamping member or ring having interengageable slots and projections for respectively effecting the detachable connection of said respective sections separately to said clamp member or ring, so that either of



said sections may be removed from the member or ring when supported thereby, without disturbing the other section in use, thus permitting if desired the ready removal of the supplemental section or substitution of another supplemental section.

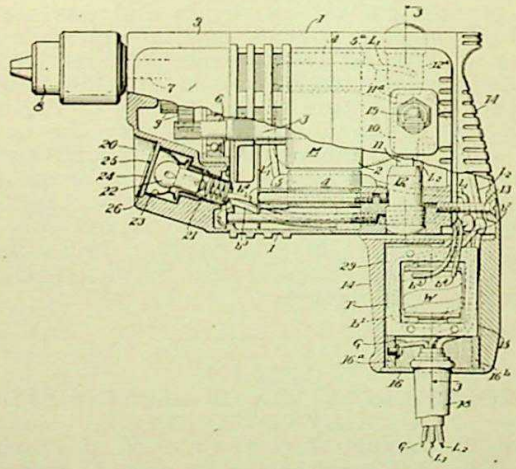
2,310,166

LIGHTING DEVICE FOR PORTABLE ELECTRIC TOOLS

Donald D. Way, Westfield, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application January 24, 1941, Serial No. 375,756

3 Claims. (Cl. 240—2)



1. A portable electric tool comprising a casing having a cavity in its forward end, a tool-spindle journaled lengthwise of said casing, an electric motor located within said casing and operatively connected to rotate said tool-spindle, a relatively high voltage electric circuit connected to said motor, an electric lamp located within said cavity with its longitudinal axis arranged at an angle to the axis of said tool-spindle so as to project its light toward a tool carried by said tool-spindle, a handle connected with said casing and having therein a cavity, a transformer located within the cavity in said handle, and electrical connections between said

transformer and said high voltage circuit and between said transformer and said lamp to supply relatively low voltage current to said lamp from said high voltage circuit independently of said motor.

2,310,167

PROCESS FOR SYNTHESIZING VITAMIN B_6

Gustaf H. Carlson, Pearl River, N. Y., assignor to Lederle Laboratories, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 26, 1941, Serial No. 412,427

18 Claims. (Cl. 260—297)

13. In the process of preparing vitamin B_6, the steps which comprise reacting the ethyl ester of 3-cyano-4-carboxy-6-methyl pyridone-2 with ammonia to form the amide of 3-cyano-4-carboxy-6-methyl pyridone-2, dehydrating the latter to give 3,4-dicyano-6-methyl pyridone-2, nitrating to form 3,4-dicyano-5-nitro-6-methyl pyridone-2, chlorinating the latter to form 2-chloro-3,4-dicyano-5-nitro-6-methyl pyridin, reducing the nitro group to give 2-chloro-3,4-dicyano-5-amino-6-methyl pyridin, reducing the cyano groups to form 3,4-aminomethyl-5-amino-6-methyl pyridin trihydrochloride and deaminating the trihydrochloride to form vitamin B_6.

2,310,168

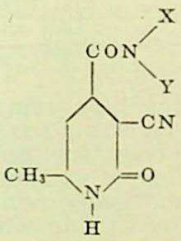
VITAMIN B_6 INTERMEDIATE

Gustaf H. Carlson Pearl River, N. Y., assignor to Lederle Laboratories, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 26, 1941, Serial No. 412.428

5 Claims. (Cl. 260—297)

1. The process of producing compounds represented by the following general formula:



in which X and Y are members of the group consisting of hydrogen, alkyl, aryl, aralkyl, and cycloaliphatic radicals, which comprises reacting an ester of 3-cyano-4-carboxy-6-methyl pyridone-2 with a member of the group consisting of ammonia, primary amines and secondary amines.

2,310.169

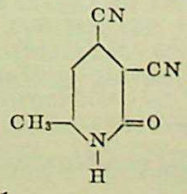
VITAMIN B_6 INTERMEDIATE

Gustaf H. Carlson, Pearl River, N. Y., assignor to Lederle Laboratories, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 26, 1941, Serial No. 412.429

3 Claims. (Cl. 260—297)

3. The compound of the formula:



2,310,170

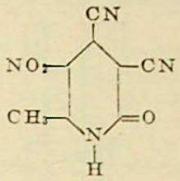
VITAMIN B_6 INTERMEDIATE

Gustaf H. Carlson, Pearl River, N. Y., assignor to Lederle Laboratories, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 26, 1941, Serial No. 412,430

3 Claims. (Cl. 260—297)

3. The compound of the formula:



2,310,171

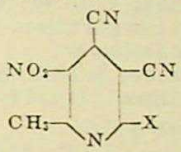
VITAMIN B_6 INTERMEDIATE

Gustaf H. Carlson, Pearl River, N. Y., assignor to Lederle Laboratories, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 26, 1941, Serial No. 412,431

6 Claims. (Cl. 260—297)

4. The compounds of the formula:



in which X is a member of the group consisting of chlorine and bromine.

2,310,172

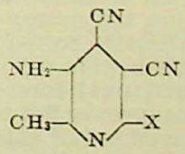
VITAMIN B_6 INTERMEDIATE

Gustaf H. Carlson, Pearl River, N. Y., assignor to Lederle Laboratories, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 26, 1941, Serial No. 412,432

8 Claims. (Cl. 260—297)

6. The compounds of the formula:



in which X is a member of the group consisting of chlorine and bromine.

2,310,173

METHOD AND APPARATUS FOR PROVIDING A CONTROLLED SUPPLY OF SULPHUR COMBUSTION GASES

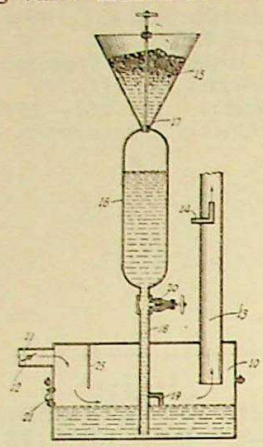
John B. Chatelain and Gordon A. Cain, Freeport, Tex., assignors to Freeport Sulphur Company, New York, N. Y., a corporation of Delaware

Application June 7, 1939, Serial No. 277,908

6 Claims. (Cl. 23—278)

4. In an apparatus for providing a controlled supply of sulphur combustion gases, a combustion chamber having an inlet for combustion supporting gases and an outlet for combustion gases, a closed supply container positioned for gravitational flow of sulphur into said combustion chamber, a liquid-sulphur supply conduit connected to said supply container and terminating in the combustion chamber, and a second conduit connected to said container terminating

in the combustion chamber at a point above the terminal of said supply conduit, said conduits having valve means for stopping the pas-



sage of fluids therethrough when the sulphur supply container is opened to the atmosphere for refilling.

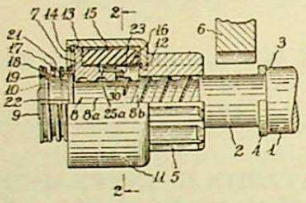
2,310,174

ENGINE STARTER DRIVE

Kenneth F. Douglas, Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application December 6, 1941, Serial No. 421,947

4 Claims. (Cl. 74—7)



1. In an engine starter a power shaft, a pinion journalled thereon for longitudinal movement into and out of engagement with a member of an engine to be started, screw-threaded means for actuating the pinion from the shaft, and means for yieldably holding the pinion in idle position including an annular elastic member anchored to the pinion traversing means and having a portion frictionally connected to the shaft, said portion being movable out of such frictional connection by centrifugal force, and said annular member having provisions to positively limit the centrifugal movement of said portion.

2,310,175

COMPOUNDED MINERAL OIL

Bruce B. Farrington, James O. Clayton, and John T. Rutherford, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

No Drawing. Application January 13, 1941, Serial No. 374,242

12 Claims. (Cl. 252—35)

1. A lubricating composition containing a salt of a metal of the iron family, said salt being of an acid of phosphorus having an organic substituent.

2,310,176

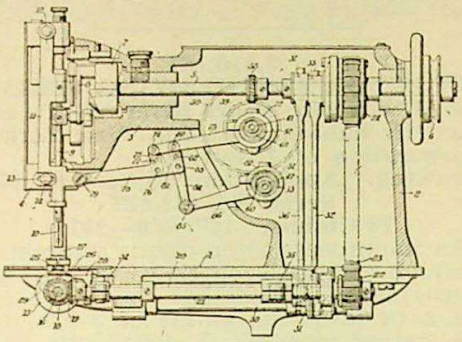
NEEDLE-VIBRATING MECHANISM FOR SEWING MACHINES

Arthur N. Hale, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application May 9, 1941, Serial No. 392,685

24 Claims. (Cl. 112—158)

1. In a sewing machine, the combination with complemental stitch-forming members including an endwise reciprocatory needle and a loop-taker, of means for imparting bodily lateral movements to one of said members, said means comprising a plurality of rotary actuating elements each hav-



ing a uniform angular velocity of rotation, means for rotating said actuating elements at different frequencies, and interconnected motion-compounding connections with the respective rotary actuating elements for transmitting lateral movements to said one of said members.

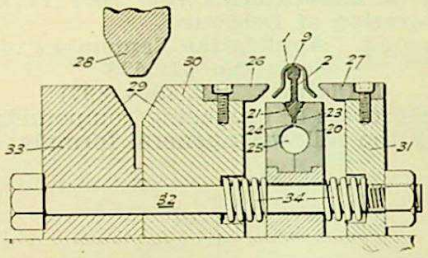
2,310,177

WIPER BLADE FORMING MACHINE AND PROCESS

Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.

Application January 26, 1939, Serial No. 252,971

12 Claims. (Cl. 153—1)



1. A squeegee machine comprising a support having a seat for receiving the transverse wiping edge of a squeegee body, suction means communicating with a source of suction operable in such manner to pneumatically conform the wiping edge to the seat by suction when the suction is applied, means for affixing a reinforcing back member to the body while the wiping edge is so pneumatically acted upon, and means for interrupting the suction communication to release the body.

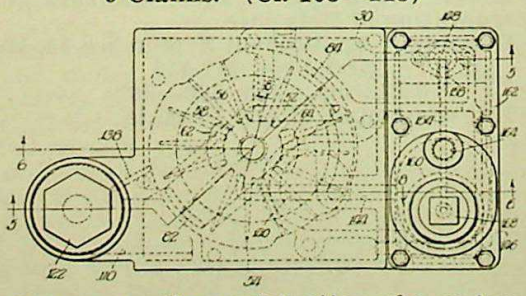
2,310,178

PUMP

Robert J. Jauch and Ross H. Arnold, Fort Wayne, Ind., assignors to The Wayne Pump Company, Fort Wayne, Ind., a corporation of Maryland

Application June 28, 1940, Serial No. 342,992

9 Claims. (Cl. 103—113)



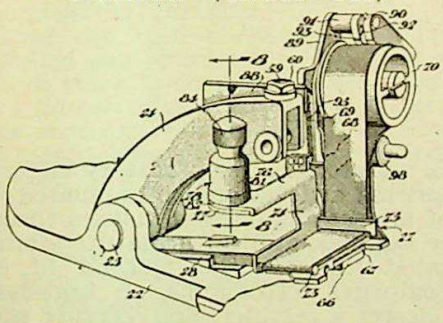
1. In a pump, the combination of a casing, said

casing having a rotor chamber, a suction chamber, a discharge chamber having an outlet, a reserve liquid chamber, said suction chamber being adapted to be connected to a source of supply, a rotor rotatably mounted in said rotor chamber, said rotor having blades, said rotor chamber being substantially elliptical and having lands forming dead spots the centers of which are substantially 180° apart, one of said lands being a forward land and the other of said lands being a rear land considered in the direction of rotation of the rotor, the apices of said ellipse being substantially midway between said dead spots, each part of said rotor chamber between said dead spots being provided with an inlet port, a liquid outlet port and a vapor outlet port, said liquid outlet port being adjacent the tips of the blades, the inlet and vapor outlet ports being adjacent the roots of said blades, a connection between the reserve liquid chamber and said vapor outlet port, a connection between said reserve liquid and suction chambers, a connection between the suction chamber and said inlet port, a connection between said liquid outlet port and discharge chamber, the inlet and liquid discharge ports being so disposed that the rear edge of said inlet port is substantially radially aligned with the forward edge of the liquid discharge port and the rear edge of the vapor discharge port is substantially aligned with the forward edge of the rear land, and a valve for controlling the outlet from said discharge chamber.

2,310,179
PRICE TAG PRINTING MACHINE

Frederick Kohnle, Dayton, Ohio, assignor to Monarch Marking System Company, Dayton, Ohio, a corporation of Ohio

Application December 11, 1939, Serial No. 308,605
4 Claims. (Cl. 101—301)



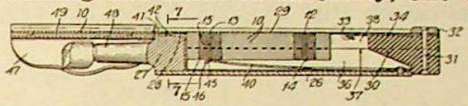
1. A printing apparatus, comprising a printing head, including type, a support for the article to be printed, a translatable inking unit slidably mounted beneath the head and adapted to be moved beneath the head for inking the type, said inking unit including a main slide, an impression pad directly upon said main slide, an inking ribbon, a support extended laterally from the slide for supporting the inking ribbon, said support carrying a feeding and reeling mechanism for the ribbon, means disposing the ribbon upon the impression pad, and a second guiding and supporting means disposed beneath the feeding and reeling mechanism in parallelism with the main slide.

2,310,180
RAZOR BLADE MAGAZINE AND BLADE PACK THEREFOR

Leopold Kuhnl, Bridgeport, Conn., assignor to Magazine Repeating Razor Company, New York, N. Y., a corporation of New Jersey

Application August 7, 1941, Serial No. 405,727
9 Claims. (Cl. 206—16)

9. The combination of a blade magazine for a razor and a blade pack therefor, the magazine comprising a casing, a blade ejecting plunger reciprocably mounted in the casing and a blade lifting spring within the casing, the blade pack comprising a stack of blades and a releasable clip retaining the stack in assembly, one of the



exterior blades of the stack being provided with a nub for positive engagement with the said spring when the pack is located in blade feeding position in the casing whereby the clip may be stripped from the stack by withdrawing the plunger, thus leaving the stack in blade feeding position in the casing.

2,310,181
AZO DYESTUFFS

Neil Mitchill Mackenzie, Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 7, 1941, Serial No. 397,085
7 Claims. (Cl. 260—193)

1. As new products, azo dyes having the following formula:

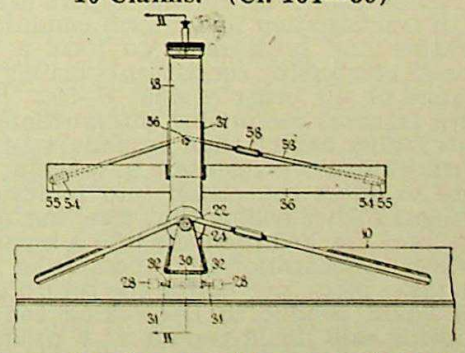
$$\left(R{-}N{:}N{-}CH \begin{matrix} CO{-}CH_3 \\ CO{-}NH{-} \end{matrix} \right)_n R'X_n'$$

in which R is an aromatic radical, R′ is a radical belonging to the group consisting of hydrocarbon radicals of the benzene, biphenyl, lower alkylene, aralkyl and alicyclic series, X is a radical included in the group consisting of SO_3H, and its salts, n is an integer included in the group consisting of 1 and 2, and n' is an integer included in the group consisting of 1, 2 and 3.

2,310,182
BACK GAUGE FOR SHEARS

Frederick E. Munschauer, Buffalo, N. Y., assignor to Niagara Machine and Tool Works, Buffalo, N. Y.

Application May 21, 1941, Serial No. 394,513
10 Claims. (Cl. 164—59)



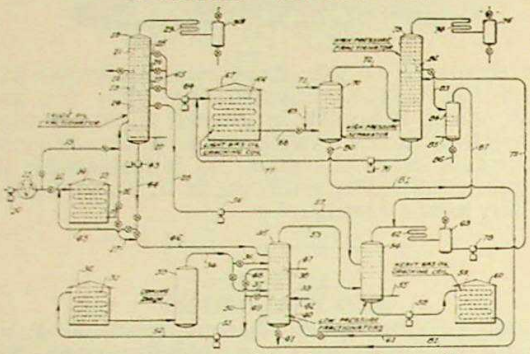
1. In a shearing machine, an elongate vertically reciprocable crosshead having a shear knife associated with a lower longitudinal edge thereof, gauge means comprising an elongate bracket having an end thereof secured to said crosshead substantially medially thereof and extending in a direction horizontally away from said shear knife, and means attaching said bracket to said crosshead, said means providing angular adjustment of the bracket with respect to the crosshead, and a substantially horizontally disposed gauge bar supported medially by said bracket for adjustable movement therealong.

2,310,183

CRACKING HYDROCARBON OIL

Joseph K. Roberts, Flossmoor, and Morris T. Carpenter, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application July 16, 1938, Serial No. 219,566
15 Claims. (Cl. 196—48)



4. In the cracking of hydrocarbons the process that comprises introducing crude petroleum residue into a primary fractionating zone in contact with hot vapors therein, maintaining such conditions of temperature and pressure therein as to effect reflux condensation of heavy constituents boiling in excess of 800° F. and form a resultant mixture of crude petroleum residue and heavy reflux condensate, introducing a stripping medium into said mixture to effect removal of the lower boiling components thereof and produce a stripped mixture having an initial boiling point of upwards of about 800° F., withdrawing the stripped mixture of crude petroleum residue and heavy reflux condensate and passing the mixture through a heated passageway of restricted cross sectional area wherein it is subjected to a cracking temperature, passing the hot products from the heated passageway into an enlarged coking zone wherein the products are maintained at a coking temperature to effect conversion into coke residue, restricting the recycling of condensate to the coking zone to said heavy fraction, passing resultant evolved vapors from the coking zone to said primary fractionating zone, passing the uncondensed vapors from the primary fractionating zone to a secondary fractionating zone wherein the vapors are subjected to fractionation under such conditions of temperature and pressure as to form a heavy condensate comprising constituents boiling within a range of the order of 650° F.–800° F. and a lighter fraction comprising intermediate constituents higher boiling than gasoline, subjecting said stripped heavy condensate to cracking temperature to effect conversion into intermediate constituents higher boiling than gasoline, directing resultant cracked products into a separating zone wherein separation of vapors from liquid residue takes place, preventing the return of any of said liquid residue to the coking zone and withdrawing said liquid residue as a product of the process, passing resultant separated vapors to said primary fractionating zone so that said vapors are fractionated in the primary and secondary fractionating zones and intermediate constituents formed in the cracking of said heavy condensate are combined with aforesaid intermediate constituents from the coking operation, subjecting intermediate constituents so combined to cracking temperature in a separate cracking zone under conditions of relatively high cracking per pass to effect conversion into gasoline constituents of high anti-knock quality, separating resultant cracked products into vapors and liquid residue in a separate separating zone, preventing the return of any of said liquid residue to the coking zone and withdrawing said liquid residue as a product of the process, and passing the separated vapors into a separate fractionating zone wherein the vapors are subjected to fractionation to recover a desired gasoline product.

2,310,184

SEPARATING OIL FROM CORN GLUTEN

Herman H. Schopmeyer, Hammond, Ind., and Gordon V. Sharps, Chicago, Ill., assignors to American Maize-Products Company, a corporation of Maine

No Drawing. Application June 18, 1941, Serial No. 398,626
5 Claims. (Cl. 260—412.2)

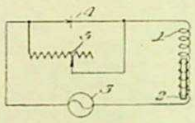
2. In the separation of oily material from corn gluten, the method which comprises forming a slurry of the gluten and water, finely grinding the gluten in the slurry so as to release oil from the gluten at a temperature below the pasting point of any starch associated with the gluten and then separating the released oil from the slurry by difference in specific gravities of the oil and the other materials present, the separation of the oil being made at a pH of approximately 8 to 11 so as to obtain a more nearly complete removal of the oil from the gluten than is effected at pH values outside the range stated.

2,310,185

RECIPROCATORY MOTOR AND METHOD OF CONTROL THEREOF

Carl S. Weyandt, Homer City, Pa.

Application December 17, 1940, Serial No. 370,465
15 Claims. (Cl. 172—240)



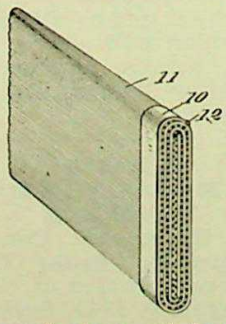
1. In a vibratory or reciprocatory electric motor comprising at least one coil actuated from a source of alternating current voltage through at least one rectifier, and an armature vibrated or reciprocated thereby, the method of control which comprises introducing an impedance in parallel across a rectifier, and varying said impedance to vary the current supplied to the motor.

2,310,186

BRUSH

Maurice Abrams, Newark, N. J., assignor of one-half to Vera Schectman-Abrams, Newark, N. J.

Application November 17, 1939, Serial No. 305,005
7 Claims. (Cl. 300—21)



1. In the manufacture of brushes, the steps of superposing brush bristles on a supporting strip

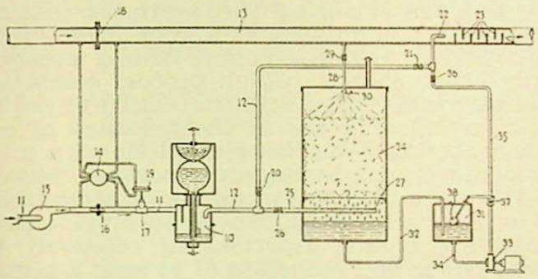
of cellulosic material previously impregnated with a heat-hardenable phenol-formaldehyde resinous composition, laminating the resultant mat up into substantially the desired ultimate configuration, and subjecting the rolled mat to heat and pressure to effect hardening of the said resinous composition, and then subjecting the heat treated product to a cooling treatment under pressure at about 2–6° C. for about 3 to 8 minutes, whereby the said bristles are substantially inseparably associated with said supporting strip and high mechanical strength is imparted to the assembly.

2,310,187

PROCESS AND APPARATUS FOR TREATING LIQUIDS WITH SULPHUR COMBUSTION GASES

Bernard A. Axelrad, Freeport, Tex., and Sheppard T. Powell, Baltimore, Md., assignors to Freeport Sulphur Company, New York, N. Y., a corporation of Delaware

Application June 5, 1940, Serial No. 338,950
15 Claims. (Cl. 210—16)



1. A method of maintaining constant the proportion of a sulphur combustion gas added to a stream of liquid to be treated therewith which comprises supplying a combustion-supporting gas to a combustion chamber containing sulphur, controlling the rate of combustion-supporting gas supplied said combustion chamber and the amount of sulphur combustion gas produced by means automatically actuated by the stream of liquid in accordance with the rate of flow thereof and introducing the sulphur combustion gas as produced into the stream of liquid.

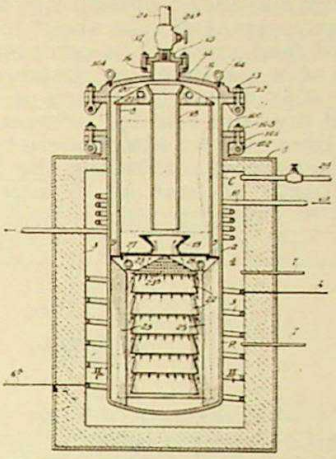
2,310,188

SUBLIMATION REFINING

Fritz J. Hansgirg, San Mateo, Calif., assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., a national banking association, as trustee

Application September 22, 1941, Serial No. 411,784
In Japan December 24, 1938
3 Claims. (Cl. 75—67)

2. In the manufacture of a volatile metal from a material bearing the metal together with non-volatile or less volatile concomitants, the method which comprises forming said material into compacted bodies, introducing said bodies into a closed gas-tight container comprising a heating chamber, a condensing chamber and a centrally positioned flow-regulating device with a number of relatively small vapor passageways from outside toward the interior, whereas the interior as a whole forms a relatively large unobstructed hood flue opening into the condenser, the compacted bodies being heaped up around the outside of the said flow regulator, and heated under temperature and pressure conditions such as to cause the bodies to give off the volatile metal required at a commercial rate of flow without coalescing; and then reducing the speed of the vapor travel on a section of the way to the condensing chamber to such an extent that suspended solids are allowed to settle, and cooling the vapor thus purified to a temperature below



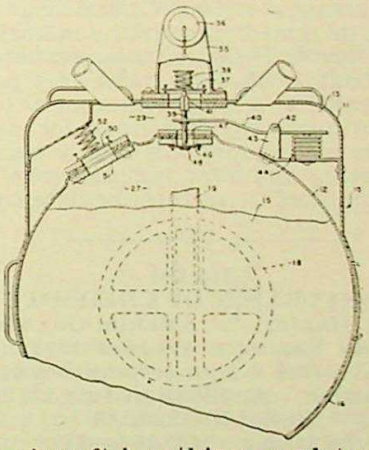
the solidification point of the metal, to condense the vapor directly to the solid state.

2,310,189

AIRCRAFT BREATHING REGULATOR

George M. Deming, Orange, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York

Application October 11, 1941, Serial No. 414,656
12 Claims. (Cl. 128—202)



10. An aircraft breathing regulator having an oxygen chamber and a respiratory chamber with a passage that communicates with the oxygen chamber, and including pressure regulator apparatus for controlling the supply of oxygen to the oxygen chamber, a conduit through which the respiratory chamber communicates with a face-mask connection, an air inlet through which air from the surrounding atmosphere enters the respiratory chamber, said air inlet confronting one end of the passage through which said chambers communicate, a valve element that moves between the confronting ends of the passage and air inlet, and an aneroid device for changing the position of the valve element with changes in altitude.

2,310,190

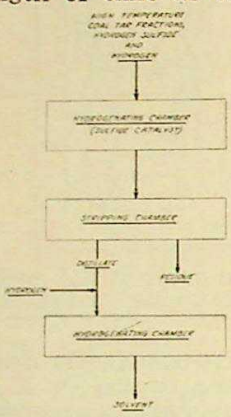
PROCESS FOR PRODUCING SOLVENTS

Jacquelin E. Harvey, Jr., Atlanta, Ga., assignor of one-half to Southern Wood Preserving Company, East Point, Ga., a corporation of Georgia

Application July 13, 1940, Serial No. 345,439
2 Claims. (Cl. 196—57)

1. In the production of solvents from a mixture of high temperature coal tar fractions selected from the group consisting of coal tar, topped coal tar and coal tar fractions boiling

preponderantly above 380° C., the process which comprises: subjecting said mixture of tar fractions at superatmospheric pressure to the action of a flow of hydrogen of at least about 15,000 cubic feet per barrel feed stock while contacting a sulfide catalyst at a temperature chosen from the range above 400° C.; maintaining a hydrogen sulfide partial pressure selected between the limits of about three quarter atmosphere to one and one-half atmospheres; continuing the treatment for such a length of time as to lower specific



gravity, coke residue and viscosity; stripping the beneficiated material to provide an intermediate starting material having an end point selected between the range of 200° C. and 380° C.; subjecting said intermediate starting material to the action of a flow of hydrogen selected between the limits of about 3,000–6,000 cubic feet per barrel material treated at a temperature of at least 450° C.; and continuing the treatment for such a period of time as to provide a finally beneficiated material having increased boiling range and solvency as compared to the intermediate feed stock.

2,310,191

CONVERSION OF CREOSOTE

Jacquelin E. Harvey, Jr., Atlanta, Ga., assignor of one-half to Southern Wood Preserving Company, East Point, Ga., a corporation of Georgia

No Drawing. Application July 13, 1940, Serial No. 345,443

2 Claims. (Cl. 196—53)

1. In the rendering of high temperature coal tar creosote more toxic to wood destroying fungi, the process which comprises: subjecting said creosote to the action of hydrogen while contacting as catalytic materials molybdenum sulfide and tin chloride; carrying on the process at a temperature and pressure of at least 400° C. and 200 atmospheres, respectively; continuing the treatment for such a length of time as to provide newly formed low boiling fractions boiling at least as low as about 70° C.; and fractionating the treated material to separate sufficient fractions boiling below 210° C. to provide a material as an oil of the wood preserving type boiling not in excess of about 10% at 210° C. having a toxicity in excess of the parent material.

2,310,192

HYDROCARBON CONVERSION

Jacquelin E. Harvey, Jr., Atlanta, Ga., assignor of one-half to Southern Wood Preserving Company, East Point, Ga., a corporation of Georgia

No Drawing. Application January 11, 1941, Serial No. 374,131

10 Claims. (Cl. 196—62)

1. The process of producing a solvent from the refined pitch produced by stripping in the order of about 75% from a high temperature coal tar, and stripping a liquid useful as a wood preservative from the overhead material to provide the refined pitch, which process comprises: subjecting said refined pitch to the action of hydrogen for a period not in excess of about two and one-half hours, whereby to avoid loss of newly induced fractions, to provide a solvent.

2,310,193

PROCESS FOR TREATING PITCH

Jacquelin E. Harvey, Jr., Atlanta, Ga., assignor of one-half to Southern Wood Preserving Company, East Point, Ga., a corporation of Georgia

No Drawing. Application May 8, 1941, Serial No. 392,558

3 Claims. (Cl. 196—53)

1. In the joint production of superior solvents and products of induced cohesion from the refined pitch produced by stripping high temperature coal tar to at least about substantial dryness, and fractionating the overhead material to provide a liquid useful as a wood preservative, and a higher boiling fraction boiling predominantly above 355° C., which process comprises: subjecting said higher boiling fraction to the action of a reducing gas in the presence of catalytic materials comprising a sulfide of a metal and iodoform at a temperature selected between 350–475° C., a pressure in excess of atmospheric and for such a length of time as to provide newly formed low boiling fractions of relatively low solvent power and reduction of at least a portion of the higher boiling materials in the feed stock; increasing the solvent power of said low boiling fractions and inducing cohesive qualities in said higher boiling materials by continuing the treatment to cover a total period of treatment in excess of about three hours under the conditions above named.

2,310,194

PROCESS OF PRODUCING TOXIC MATERIAL

Jacquelin E. Harvey, Jr., Atlanta, Ga., assignor of one-half to Southern Wood Preserving Company, East Point, Ga., a corporation of Georgia

No Drawing. Application August 7, 1941, Serial No. 405,889

14 Claims. (Cl. 196—50)

1. In the production of wood preservative the process which comprises: mixing fractions of toxic coal tar with a substantially non-toxic petroleum oil; vaporizing at least a portion of said mixture and subjecting the mixture of said materials substantially in entirety to heat treatment at a temperature of from 300° C. to 750° C. and condensing the vapors; controlling the time and temperature of heat treatment and percentage of non-toxic oil so that the overall liquid reaction product is an oil of the wood preserving type boiling not in excess of about 3% at 150° C.

2,310,195

BRAKE RIGGING AND/OR RAILWAY CAR TRUCK

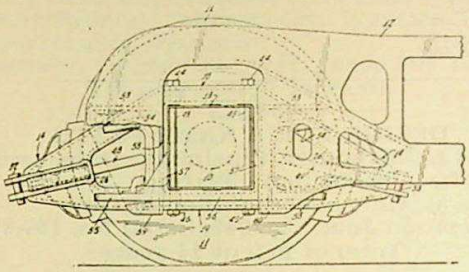
Charles R. Busch, Orange, N. J.

Application May 15, 1941, Serial No. 393,583

28 Claims. (Cl. 188—212)

1. Brake-supporting means for a railway truck, comprising a rigid member adapted to be supported independently of a truck side frame, means for supporting the member on a four-walled journal box of such truck in a stable position, such means including elements for solidly

bearing on the four walls of the box, and a brake-beam guide on the member and extending for a



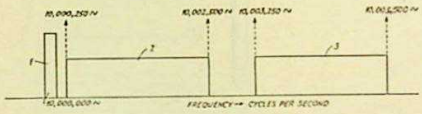
length at least equivalent to the extent of travel of the beam.

2,310,196

CONTROL OF FADING IN RADIO COMMUNICATION SYSTEMS

Alfred Leonard Green, Sydney, New South Wales, Australia, assignor to Amalgamated Wireless (Australasia) Limited, Sydney, New South Wales, Australia, a corporation of New South Wales

Application October 8, 1940, Serial No. 360,231
In Australia October 26, 1939
6 Claims. (Cl. 250—6)



6. The method of overcoming fading in a radio system which includes modulating a fixed low frequency wave by energy from a source of low frequency intelligence, filter-passing the sum frequencies so obtained, combining said sum frequencies with amplified energy from said source, modulating a sub-carrier wave by the combined intelligence frequencies and sum frequencies to obtain two separated sidebands on each side of said sub-carrier wave, filtering the last said modulation products to suppress the two sidebands which lie below the sub-carrier, modulating a high frequency carrier wave by the remaining filter products, band-pass filtering said high frequency carrier wave and the two separated sidebands which lie above the frequency of the carrier wave, radiating said carrier wave and its two upper sidebands so derived, receiving the energy so radiated, and reducing the same to intelligence.

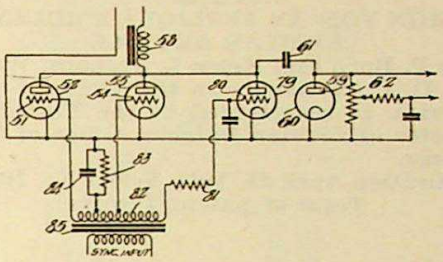
2,310,197

TELEVISION SYSTEM

Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application December 21, 1940, Serial No. 371,078
7 Claims. (Cl. 178—5.6)

1. In a television system including electron ray scanning devices, the combination of means for transmitting a sinusoidal electron ray scanning synchronizing signal having a frequency equal to the scanning rate of said electron ray in one direction of relatively rapid scanning rate, a saw-tooth wave generator controlled by said synchronizing signal periodically only at alternate intervals when said sinusoidal signal passes through its axis and adapted to generate saw-tooth waves having a frequency equal to said synchronizing signals, means for transmitting a second sinusoidal synchronizing signal having a



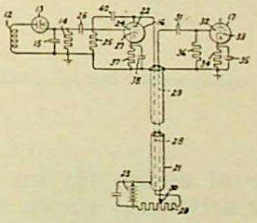
frequency equal to a submultiple of the scanning rate of said electron ray in another direction of relatively slow scanning rate, and a second saw-tooth wave generator controlled by said second synchronizing signal and adapted to generate saw-tooth waves having a frequency equal to a multiple of said second synchronizing signal.

2,310,198

SIGNAL TRANSMISSION SYSTEM

John E. Maynard, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application January 17, 1941, Serial No. 374,905
6 Claims. (Cl. 179—171)



1. In combination, a source of signals having frequencies extending over a band of frequencies, a network through which the signals from said source are to be transmitted, said network having reactance varying with frequency whereby signals transmitted through said network are attenuated differently at different frequencies, an electron discharge device having a cathode, an anode, and a control electrode, an output circuit connected between said anode and cathode and including said network, an input circuit connected between said control electrode and cathode and including said source of signals, and means comprising a capacity between said anode and control electrode for producing in said input circuit a degenerative voltage derived from the signal voltage across said input reactance, said capacity having such value as to cooperate with said reactance in producing sufficient degeneration at any particular frequency in said band to reduce the amplification through said discharge device to a value less than unity and to compensate the variation in attenuation of said signals over said band of frequencies caused by said reactance.

DESIGNS

FEBRUARY 2, 1943

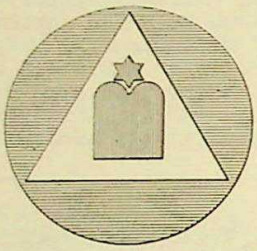
134,923

DESIGN FOR AN APPLIQUE EMBLEM OR SIMILAR ARTICLE

Walter P. Burn and Helen L. Jurkops, Washington, D. C., assignors to the United States of America, as represented by the United States Director of Civilian Defense, Office of Civilian Defense

Application April 25, 1942, Serial No. 106,696

Term of patent 7 years



The ornamental design for an applique emblem or similar article, as shown and described.

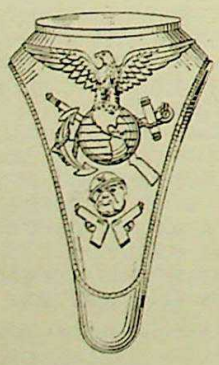
134,924

DESIGN FOR A FINGER RING OR SIMILAR ARTICLE

Aaron Elkonin, Brooklyn, N. Y.

Application December 15, 1942, Serial No. 109,041

Term of patent 14 years



The ornamental design for a finger ring or similar article, substantially as shown and described.

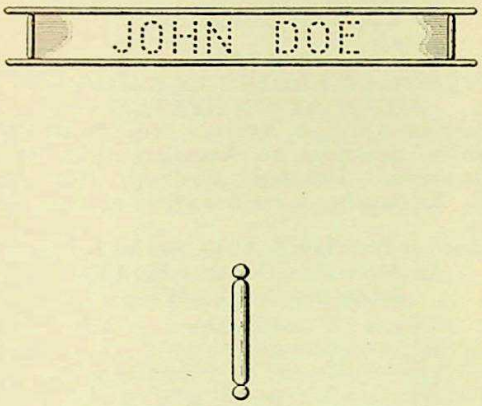
134,925

DESIGN FOR A NAME PLATE

Winford L. Enghauser, Cincinnati, Ohio, assignor to The Production Plating Works, Inc., Lebanon, Ohio, a corporation of Ohio

Application June 22, 1942, Serial No. 107,303

Term of patent 14 years



The ornamental design for a name plate substantially as shown.

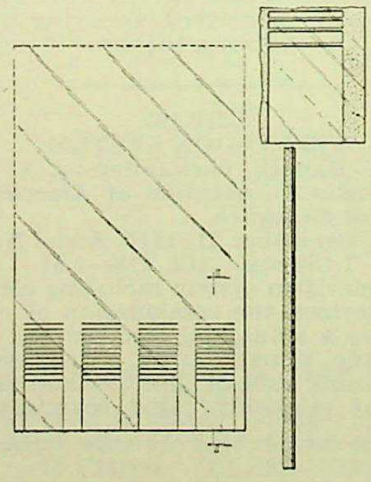
134,926

DESIGN FOR A VENDING MACHINE CONTENTS DISPLAY PANEL

Warren B. Green, New York, N. Y., assignor to U-Need-A-Pak Products Corp., Brooklyn, N. Y., a corporation of New York

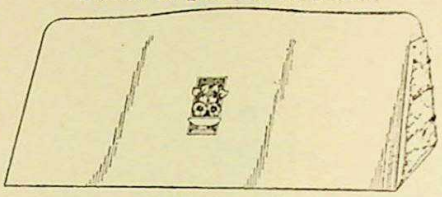
Application December 11, 1940, Serial No. 97,253

Term of patent 3½ years



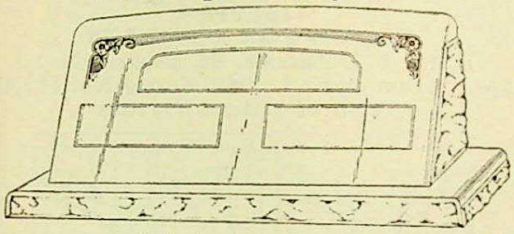
The ornamental design for a vending machine contents display panel, substantially as shown and described.

134,927
DESIGN FOR A MONUMENT
Albert H. Johnson, Wausau, Wis., assignor to Anderson Bros. & Johnson Co., Wausau, Wis., a corporation of Wisconsin
Application October 26, 1942, Serial No. 108,611
Term of patent 14 years



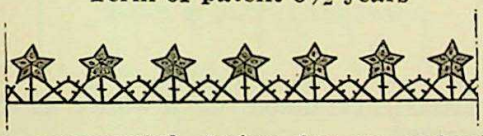
The ornamental design for a monument, as shown.

134,928
DESIGN FOR A MONUMENT
Albert H. Johnson, Wausau, Wis., assignor to Anderson Bros. & Johnson Co., Wausau, Wis., a corporation of Wisconsin
Application October 26, 1942, Serial No. 108,612
Term of patent 14 years



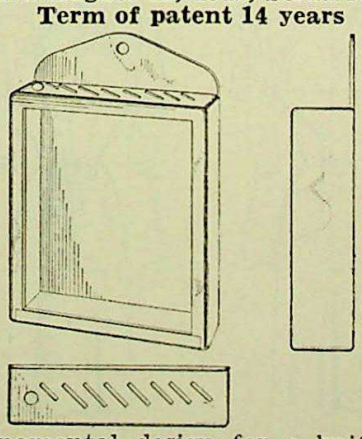
The ornamental design for a monument, as shown.

134,929
DESIGN FOR AN EMBROIDERED LACE
Max P. Oeschger, Red Bank, N. J., assignor to Oscar Embroidery Co., New York, N. Y.
Application November 30, 1942, Serial No. 108,912
Term of patent 3½ years



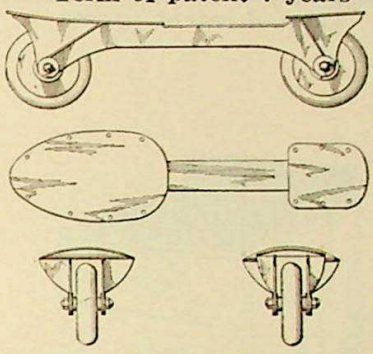
The ornamental design for an embroidered lace, substantially as shown.

134,930
DESIGN FOR A KNIFE RACK
Albert E. Rosenberg, New York, N. Y.
Application August 11, 1942, Serial No. 107,878
Term of patent 14 years



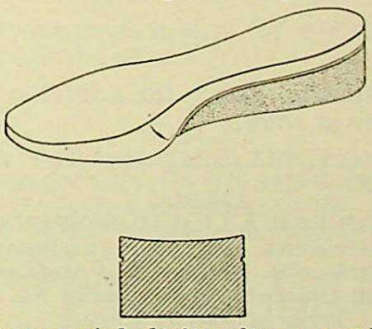
The ornamental design for a knife rack, as shown and described.

134,931
DESIGN FOR A ROLLER SKATE
James S. Yuill, Prince Albert, Saskatchewan, Canada
Application October 2, 1942, Serial No. 108,398
Term of patent 7 years



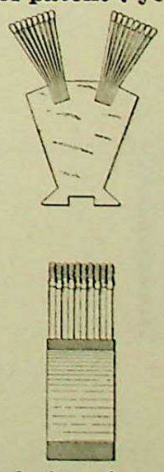
The ornamental design for a roller skate, as shown.

134,932
DESIGN FOR A COMBINED SHOE SOLE AND HEEL
Henry Clausing, Portsmouth, Ohio, assignor to Vulcan Corporation, Portsmouth, Ohio, a corporation of Ohio
Application June 30, 1942, Serial No. 107,371
Term of patent 7 years



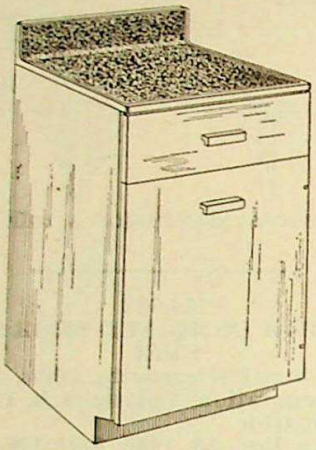
The ornamental design for a combined shoe sole and heel, substantially as shown and described.

134,933
DESIGN FOR COMBINED MATCH CLUSTERS AND HOLDER
Harry Cohen, Chicago, Ill.
Application May 4, 1942, Serial No. 106,789
Term of patent 7 years



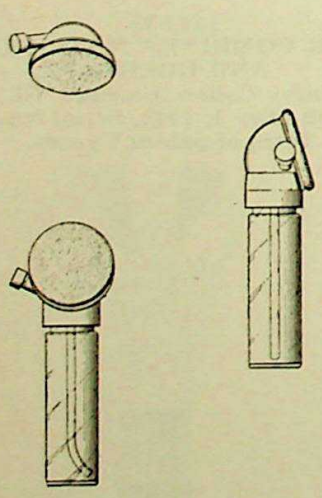
The ornamental design for combined match clusters and holder, as shown.

134,934
DESIGN FOR A KITCHEN CABINET
John Richard Harris, Broadview, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application May 8, 1942, Serial No. 106,818
Term of patent 7 years



The ornamental design for a kitchen cabinet, substantially as shown.

134,935
DESIGN FOR A LIQUID DISPENSER
Arthur E. Heemann, Bell, Calif., assignor of one-half to Caroline R. Kellogg, Los Angeles, Calif.
Application October 2, 1942, Serial No. 108,403
Term of patent 7 years

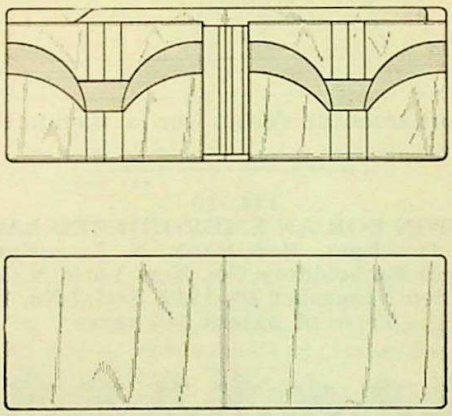


The ornamental design for a liquid dispenser, substantially as shown.

134,936
DESIGN FOR A BUCKLE
Basil D. Huff, New York, N. Y.
Application December 7, 1942, Serial No. 108,963
Term of patent 7 years

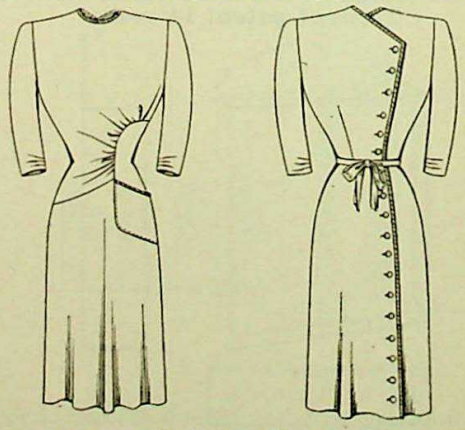
The ornamental design for a buckle, substantially as shown.

134,937
DESIGN FOR A WALLET
Harry P. Behrman, St. Albans, N. Y.
Application April 2, 1942, Serial No. 106,422
Term of patent 7 years



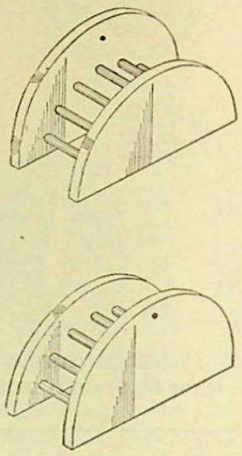
The ornamental design for a wallet, as shown and described.

134,938
DESIGN FOR A DRESS
Camille Charles, New York, N. Y.
Application January 4, 1943, Serial No. 109,200
Term of patent 3½ years



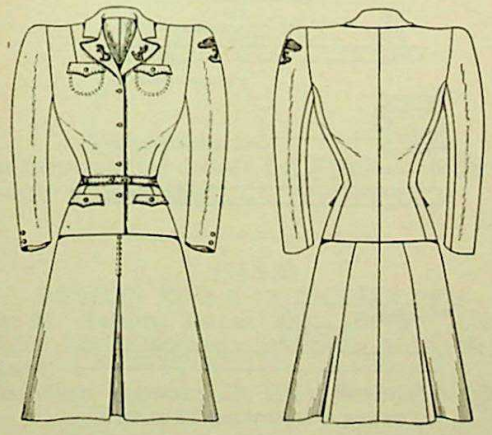
The ornamental design for a dress, substantially as shown.

134,939
DESIGN FOR A GARDEN HOSE HOLDER
Charles Harvey Churchill, Cortland, N. Y.
Application December 17, 1942, Serial No. 109,057
Term of patent 3½ years



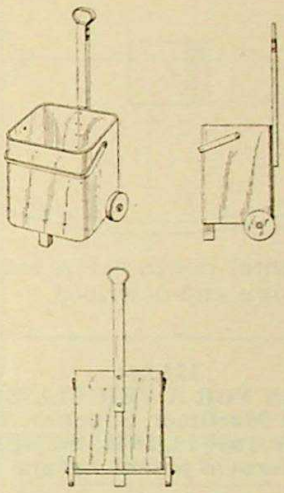
The ornamental design for a garden hose holder, as shown.

134,940
DESIGN FOR A SUIT
Edward Goldfield, New York, N. Y.
Application December 17, 1942, Serial No. 109,058
Term of patent 3½ years



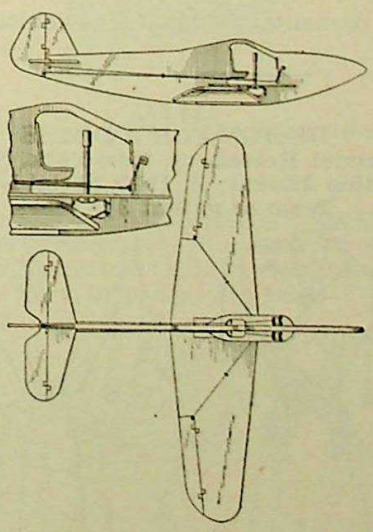
The ornamental design for a suit, substantially as shown.

134,941
DESIGN FOR A SHOPPER'S CART
William Hansen, Chicago, Ill.
Application May 4, 1942, Serial No. 106,783
Term of patent 3½ years



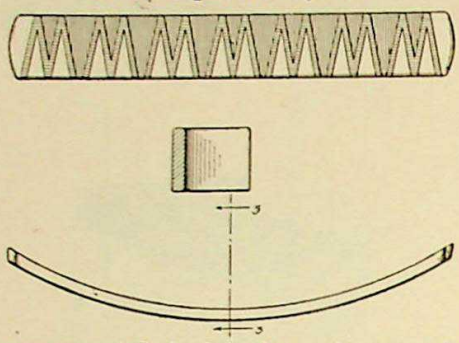
The ornamental design for a shopper's cart, substantially as shown.

134,942
DESIGN FOR AN AIRPLANE CONTROL INSTRUCTION DEVICE OR SIMILAR ARTICLE
Joseph H. Konefes, Chicago, Ill., assignor to Comet Model Airplane & Supply Co., Inc., a corporation of Illinois
Application July 18, 1942, Serial No. 107,599
Term of patent 14 years



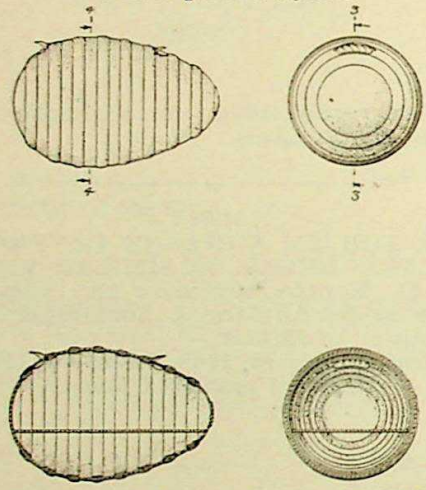
The ornamental design for an airplane control instruction device or similar article, as shown.

134,943
DESIGN FOR A BUMPER BAR OR THE LIKE
Merlin Mitchell, Orlando, Fla.
Application November 7, 1942, Serial No. 108,716
Term of patent 7 years



The ornamental design for a bumper bar or the like, as shown and described.

134,944
DESIGN FOR A VEHICLE BODY
Albert Mortimer, Superior, Wis.
Application August 14, 1942, Serial No. 107,934
Term of patent 7 years

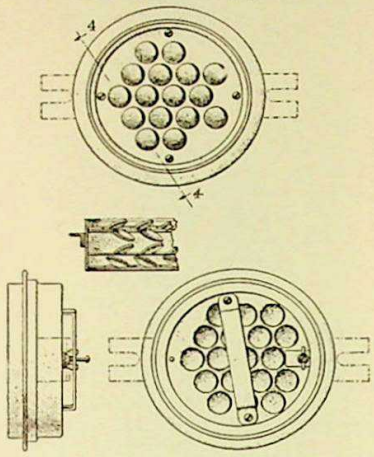


The ornamental design for a vehicle body, as shown.

134,945
DESIGN FOR A DRESS
Harriet Rosenberg, New York, N. Y.
Application January 4, 1943, Serial No. 109,198
Term of patent 3½ years

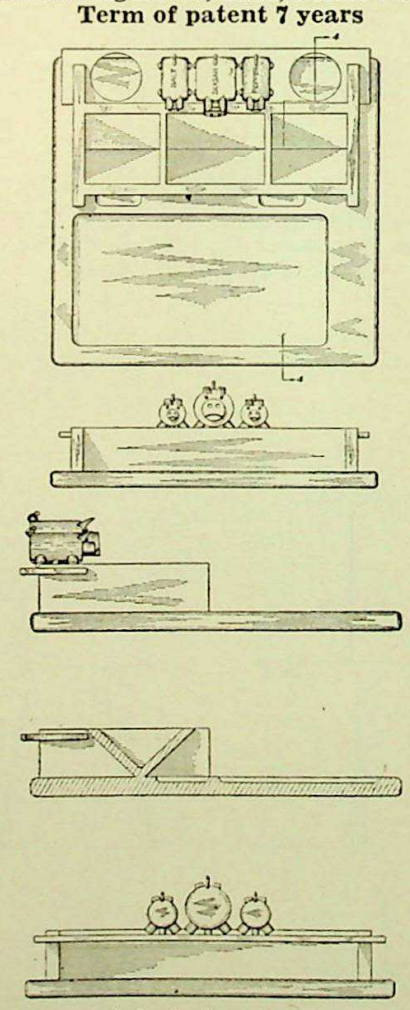
The ornamental design for a dress, substantially as shown.

134,946
DESIGN FOR A CASEMENT FOR PORTHOLES OR THE LIKE
Robert W. Rowland, Newark, N. J.
Application September 18, 1942, Serial No. 108,272
Term of patent 7 years



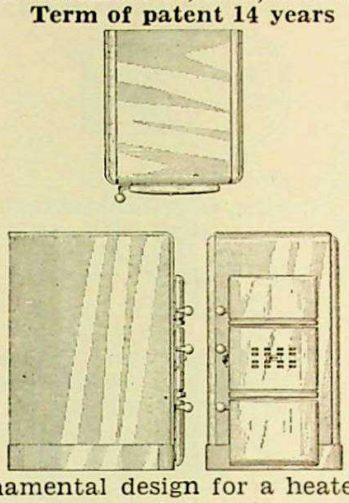
The ornamental design for a casement for portholes or the like, as shown and described.

134,947
DESIGN FOR A FOOD TRAY
Reginald V. Stambaugh, Cleveland, Ohio
Application August 26, 1942, Serial No. 108,044
Term of patent 7 years



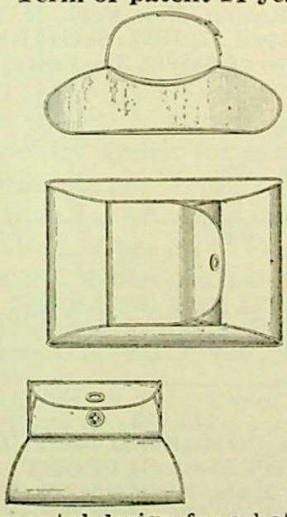
The ornamental design for a food tray, as shown.

134,948
DESIGN FOR A HEATER CASING OR THE LIKE
Harry R. Trout, Pittsburgh, Pa., assignor to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware
Application November 22, 1941, Serial No. 104,250
Term of patent 14 years



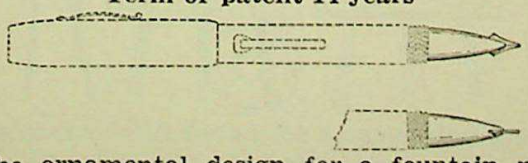
The ornamental design for a heater casing or the like, as shown and described.

134,949
DESIGN FOR A BOTTLE HOLDER
Paul E. Allen, Skokie, Ill.
Application December 5, 1942, Serial No. 108,951
Term of patent 14 years



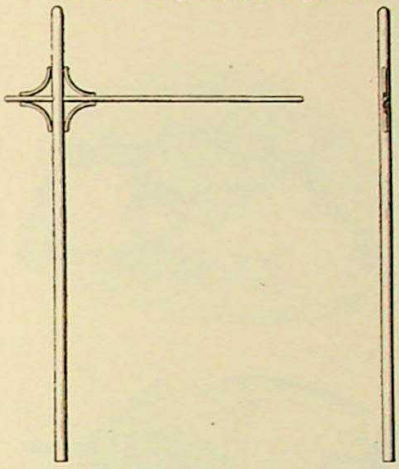
The ornamental design for a bottle holder, substantially as shown.

134,950
DESIGN FOR A FOUNTAIN PEN
Frank M. Ashley, Great Kills, N. Y.; Anna M. Ashley administratrix of Frank M. Ashley, deceased
Application January 29, 1942, Serial No. 105,506
Term of patent 14 years



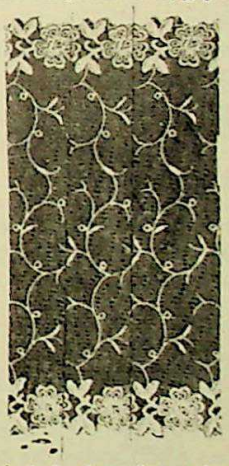
The ornamental design for a fountain pen, substantially as shown and described.

134,951
DESIGN FOR A MAILBOX SUPPORT
Winford L. Enghauser, Cincinnati, Ohio, assignor to The Production Plating Works, Inc., Lebanon, Ohio, a corporation of Ohio
Application June 22, 1942, Serial No. 107,304
Term of patent 14 years



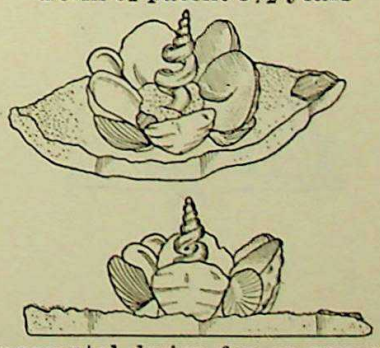
The ornamental design for a mail box support, substantially as shown.

134,952
DESIGN FOR A LACE
Abraham Feerst, New York, N. Y.
Application January 12, 1943, Serial No. 109,237
Term of patent 3½ years



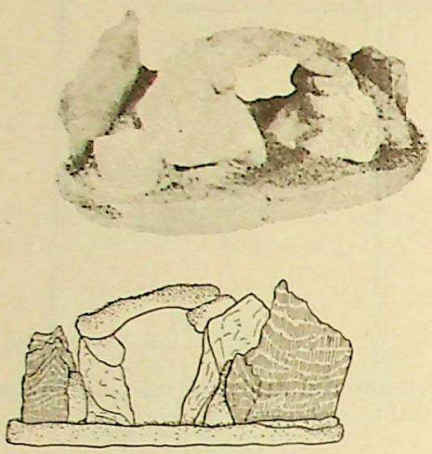
The ornamental design for a lace, substantially as shown and described.

134,953
DESIGN FOR AN AQUARIUM ORNAMENT
Albert Greenberg, New York, N. Y.
Application November 18, 1942, Serial No. 108,815
Term of patent 3½ years



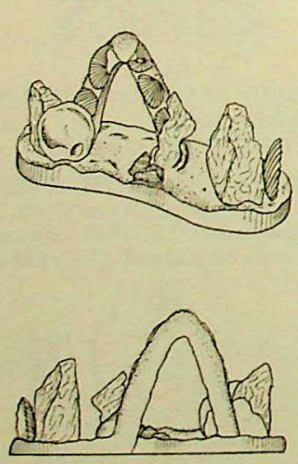
The ornamental design for an aquarium ornament, substantially as shown.

134,954
DESIGN FOR AN AQUARIUM ORNAMENT
Albert Greenberg, New York, N. Y.
Application November 18, 1942, Serial No. 108,817
Term of patent 3½ years



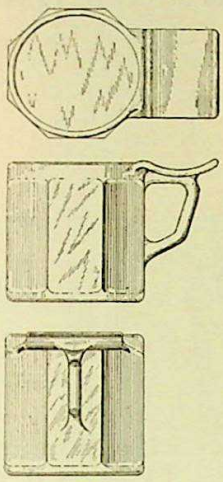
The ornamental design for an aquarium ornament, substantially as shown.

134,955
DESIGN FOR AN AQUARIUM ORNAMENT
Albert Greenberg, New York, N. Y.
Application November 18, 1942, Serial No. 108,818
Term of patent 3½ years



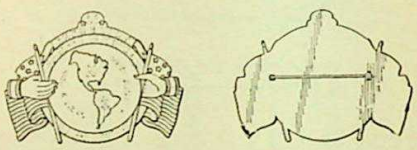
The ornamental design for an aquarium ornament, substantially as shown.

134,956
DESIGN FOR A COMBINED SHAVING CUP AND RAZOR BLADE HONE
Richard W. Harrison and Frank Grabowski, Charlestown, Mass.
Application May 25, 1942, Serial No. 107,002
Term of patent 3½ years



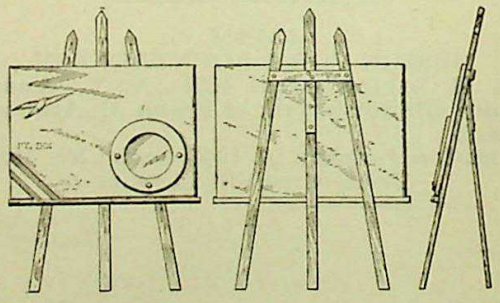
The ornamental design for a combined shaving cup and razor blade hone, substantially as shown.

134,957
DESIGN FOR A PIN OR SIMILAR ARTICLE
Leon Kalina, New York, N. Y.
Application April 17, 1942, Serial No. 106,600
Term of patent 3½ years



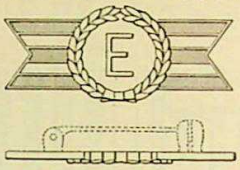
The ornamental design for a pin or similar article, as shown and described.

134,958
DESIGN FOR A COMBINED PICTURE FRAME AND EASEL SUPPORT
Willy Katz, Woodside, N. Y.
Application September 24, 1942, Serial No. 108,327
Term of patent 7 years



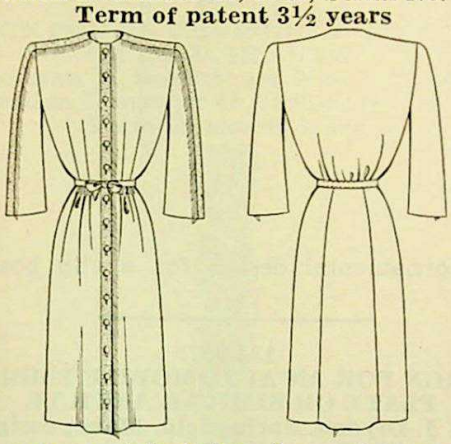
The ornamental design for a combined picture frame and easel support, as shown and described.

134,959
DESIGN FOR A LAPEL EMBLEM BUTTON OR THE LIKE
William S. Knudsen, United States Army, Washington, D. C., assignor to the United States of America, as represented by the Secretary of War
Application November 11, 1942, Serial No. 108,748
Term of patent 3½ years



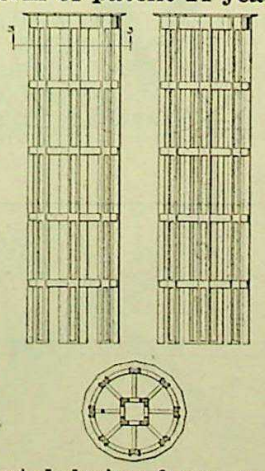
The ornamental design for a lapel emblem button or the like, as shown and described.

134,960
DESIGN FOR A DRESS
Barbara Moye, New York, N. Y.
Application December 24, 1942, Serial No. 109,131
Term of patent 3½ years



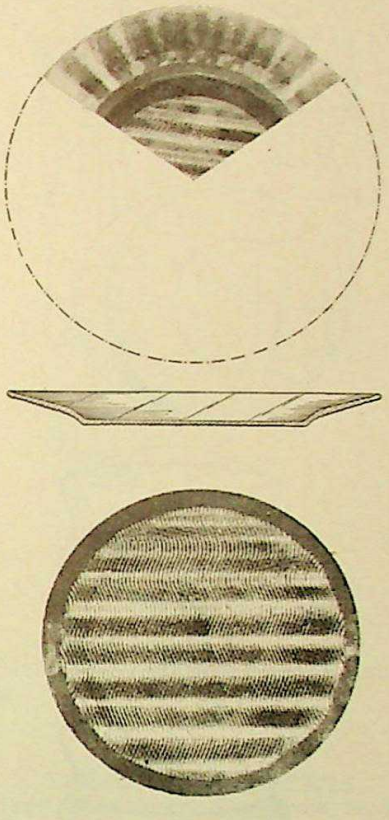
The ornamental design for a dress, substantially as shown.

134,961
DESIGN FOR A SUPPORTING TOWER FOR TANKS OR THE LIKE
Dagbert Ording and Leslie S. Vallely, Houston, Tex., assignors to Valco, Inc., Houston, Tex., a corporation of Texas
Application May 2, 1942, Serial No. 106,780
Term of patent 14 years



The ornamental design for a supporting tower for tanks or the like, substantially as shown and described.

134,962
DESIGN FOR A GLASS PLATE OR THE LIKE
Carl T. Sloan, Jeannette, Pa., assignor to The Jeannette Glass Company, Jeannette, Pa., a corporation of Pennsylvania
Application August 27, 1941, Serial No. 103,053
Term of patent 14 years

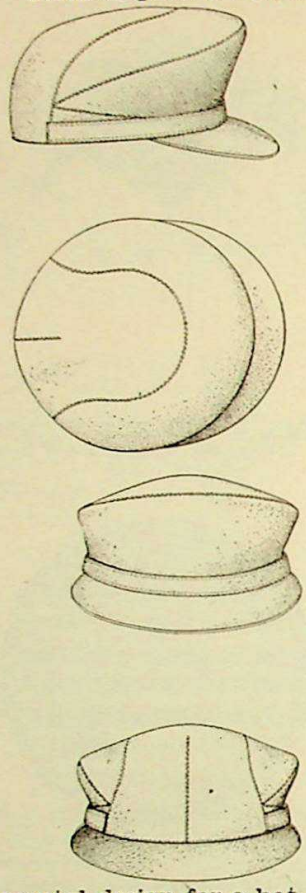


The ornamental design for a glass plate or the like, substantially as shown and described.

134,963
DESIGN FOR A PARACHUTIST'S BADGE
William P. Yarborough, Fort Bragg, N. C.
Application June 19, 1942, Serial No. 107,243
Term of patent 3½ years

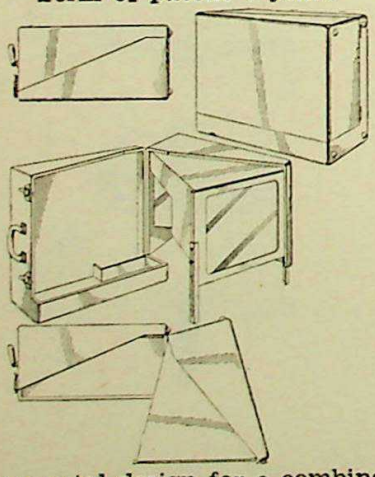
The ornamental design for a parachutist's badge, as shown and described.

134,964
DESIGN FOR A HAT
Paul M. Maxwell, Manhasset, N. Y., and Wilhelmina J. Russy, Jersey City, N. J., assignors to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware
Application November 28, 1942, Serial No. 108,903
Term of patent 7 years



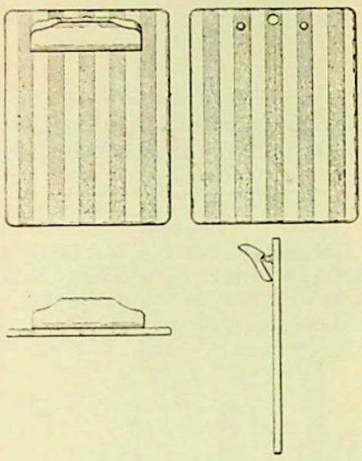
The ornamental design for a hat, as shown.

134,965
DESIGN FOR A COMBINATION MOTION PICTURE SCREEN AND CARRYING CASE
Abraham Shapiro, Chicago, Ill., assignor to Ampro Corporation, Chicago, Ill., a corporation of Illinois
Application November 4, 1942, Serial No. 108,696
Term of patent 7 years



The ornamental design for a combination motion picture screen and carrying case, as shown.

134,966
DESIGN FOR A CLIP BOARD
John Henry Brinker, Covington, Ky., assignor to The Globe-Wernicke Company, Norwood, Ohio, a corporation of Ohio
Application December 4, 1942, Serial No. 108,945
Term of patent 14 years

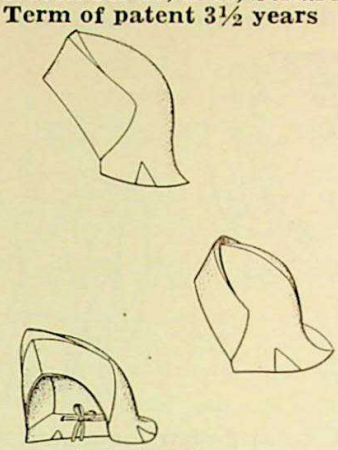


The ornamental design for a clip board, as shown.

134,967
DESIGN FOR AN AUTOMOBILE EMBLEM PLATE OR SIMILAR ARTICLE
Charles J. Dryden, Springfield, Mass., assignor to William T. Turner, doing business as Eagle Emblem Co., Springfield, Mass.
Application April 24, 1942, Serial No. 106,686
Term of patent 3½ years

The ornamental design for an automobile emblem plate or similar article, as shown and described.

134,968
DESIGN FOR A HAT
Zinaida Harpignies, Kew Gardens, N. Y.
Application November 17, 1942, Serial No. 108,800
Term of patent 3½ years

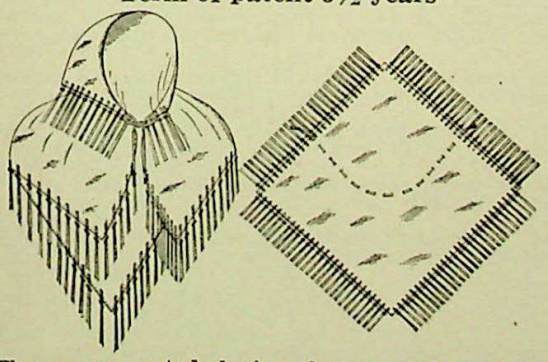


The ornamental design for a hat, as shown.

134,969
DESIGN FOR AN EMBROIDERED TRIMMING OR SIMILAR ARTICLE
Norman M. Rosenbaum, New York, N. Y.
Application December 19, 1942, Serial No. 109,070
Term of patent 7 years

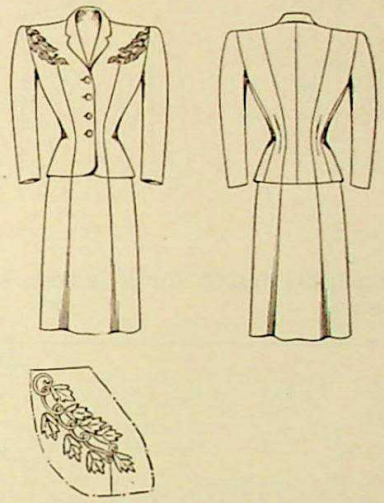
The ornamental design for an embroidered trimming or similar article, substantially as shown and described.

134,970
DESIGN FOR A COMBINED SHAWL AND HEAD COVERING
Raymond M. Wolfe, Louisville, Ky.
Application July 21, 1942, Serial No. 107,633
Term of patent 3½ years



The ornamental design for a combined shawl and head covering, as shown.

134,971
DESIGN FOR A SUIT
Simon Etkin, New York, N. Y.
Application January 12, 1943, Serial No. 109,234
Term of patent 3½ years

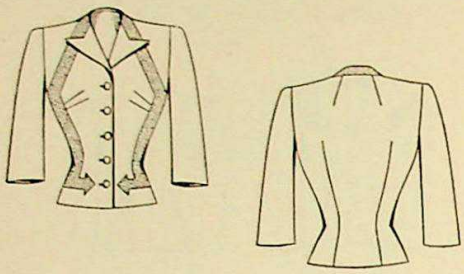


The ornamental design for a suit, substantially as shown.

134,972
DESIGN FOR A DRESS
Fred Greenberg, New York, N. Y.
Application January 12, 1943, Serial No. 109,235
Term of patent 3½ years

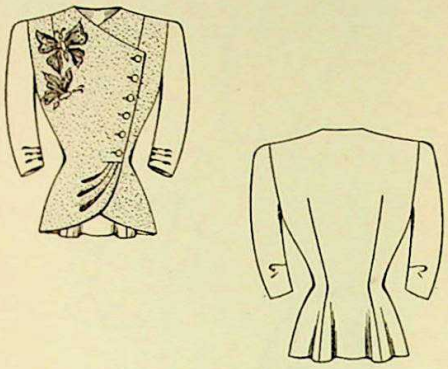
The ornamental design for a dress, substantially as shown.

134,973
DESIGN FOR A JACKET
Barbara Moye, New York, N. Y.
Application January 12, 1943, Serial No. 109,236
Term of patent 3½ years



The ornamental design for a jacket, substantially as shown.

134,974
DESIGN FOR A JACKET
Dorothy Seligman, New York, N. Y.
Application January 12, 1943, Serial No. 109,233
Term of patent 3½ years



The ornamental design for a jacket, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Altoona Mattress Mfg. Company, Inc., Altoona, Pa. Mattresses and box springs. Serial No. 457,305; Feb. 2. Class 32.

American Car and Foundry Company, New York, N. Y. Railway cars. Serial No. 447,554; Feb. 2. Class 19.

Anderson, Wm., Textile Mfg. Co. Ltd., New York, N. Y. Printed cotton piece goods. Serial No. 456,450; Feb. 2. Class 42.

Anderson, Wm., Textile Mfg. Co. Ltd., New York, N. Y. Printed cotton piece goods. Serial No. 456,453; Feb. 2. Class 42.

Associated Industries of Massachusetts, Boston, Mass. Periodical. Serial No. 445,003; Feb. 2. Class 38.

Barclay Manufacturing Company, Inc., New York, N. Y. Pressed wood fiber wall board. Serial No. 457,027; Feb. 2. Class 12.

Beisner, Henry H., doing business as H. H. Beisner (Chemicals), New York, N. Y. Pharmaceutical preparation. Serial No. 457,268; Feb. 2. Class 6.

Bisceglia Brothers Wine Co., Fresno and Reedley, Calif. Wines. Serial No. 453,317; Feb. 2. Class 47.

Blue Swan Mills, Inc., New York, N. Y. Ladies' and children's underwear. Serial No. 457,162; Feb. 2. Class 39.

Borden Company, The, New York, N. Y. Cheese cocktail spreads. Serial No. 457,060; Feb. 2. Class 46.

Bows, Sherman. (See Sherman, Sol.)

Breon, George A., & Company, Kansas City, Mo. Ointment for the relief of minor wounds and burns. Serial No. 455,717; Feb. 2. Class 6.

British Arkady Company Limited, The, Manchester, England. Improver for flour confectionery for use in various types of baked foods to improve the appearance and primarily the crust color thereof. Serial No. 451,336; Feb. 2. Class 46.

Carlisle Sportswear, Inc., New York, N. Y. Ladies' misses', and girls' knitted sweaters, waists, coats, etc. Serial No. 453,430; Feb. 2. Class 39.

Deauville Bags, Inc., New York, N. Y. Pocketbooks and handbags. Serial No. 456,587; Feb. 2. Class 3.

Dell Publishing Company, Inc., New York, N. Y. Publication. Serial No. 456,590; Feb. 2. Class 38.

Dell Publishing Company, Inc., New York, N. Y. Publication including recipes for cooking. Serial No. 456,591; Feb. 2. Class 38.

Deltox Rug Company, Oshkosh, Wis. Rugs, floor mats, and floor coverings. Serial No. 456,681; Feb. 2. Class 42.

Detroit Lubricator Company, Detroit, Mich. Temperature actuated electric switches. Serial No. 457,115; Feb. 2. Class 26.

Dussek Brothers & Company Limited, Crayford, England. Glazing putty. Serial No. 457,331; Feb. 2. Class 12.

Edelman, George, doing business as George Edelman Co., New York, N. Y. Capes, shampoo capes, beauty parlor and boudoir capes, etc. Serial No. 456,729; Feb. 2. Class 39.

Eskimo Pie Corporation, Bloomfield, N. J. Ice cream. Serial No. 456,685; Feb. 2. Class 46.

Finkelstein, Morris, New York, N. Y. Slide fasteners. Serial No. 455,969; Feb. 2. Class 13.

Firestone Tire & Rubber Company, The, Akron, Ohio. Pneumatic tires and tubes. Serial No. 457,335; Feb. 2. Class 35.

Flintkote Company, The, New York, N. Y. Bituminous roofing cement. Serial Nos. 449,258–9; Feb. 2. Class 12.

Ford Motor Company. (See Lincoln Motor Company.)

Fostoria Pressed Steel Corp., The, Fostoria, Ohio. Fixtures, brackets, and supports for electrically-generated-ray handling apparatus. Serial No. 455,339; Feb. 2. Class 21.

Georgia Kaolin Company, Elizabeth, N. J. Clays used as extenders in protective paint coatings. Serial No. 456,188; Feb. 2. Class 16.

Gooch Food Products Company, Lincoln, Nebr. Elbow macaroni, spaghetti, shell macaroni, etc. Serial No. 456,873; Feb. 2. Class 46.

Gordon, Catherine K., doing business as House of Gordon, Chicago, Ill. Soap. Serial No. 449,133; Feb. 2. Class 4.

Haft, Morris W., & Brothers, New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. Serial No. 456,985; Feb. 2. Class 39.

Hopkinsville Milling Co., Hopkinsville, Ky. Wheat flour. Serial No. 457,037; Feb. 2. Class 46.

House Beautiful Curtains, Inc., New York, N. Y. Curtains, draperies, bedspreads, etc. Serial No. 456,672; Feb. 2. Class 42.

House of Gordon. (See Gordon, Catherine K.)

Illinois Razor Strop Company, Chicago, Ill. Razor strops. Serial No. 456,891; Feb. 2. Class 4.

Industrial Electronics Corporation, Newark, N. J. Incandescent, fluorescent, short wave, etc., lamps and associated control equipment. Serial No. 454,446; Feb. 2. Class 21.

Kanmak Textiles, Inc., New York, N. Y. Water repellent piece goods. Serial No. 457,008; Feb. 2. Class 42.

Knoxville Glove Company, Knoxville, Tenn. Gloves. Serial No. 457,122; Feb. 2. Class 39.

Knoxville Glove Company, Knoxville, Tenn. Gloves Serial No. 457,125; Feb. 2. Class 39.

Knoxville Glove Company, Knoxville, Tenn. Gloves Serial Nos. 457,127–8; Feb. 2. Class 39.

Knoxville Glove Company, Knoxville, Tenn. Gloves Serial No. 457,131; Feb. 2. Class 39.

Knoxville Glove Company, Knoxville, Tenn. Gloves Serial Nos. 457,136–7; Feb. 2. Class 39.

Krim-Ko Company, Chicago, Ill. Product used as an emulsifying, jellying, sizing, etc. agent in food, pharmaceutical and textile industries. Serial No. 455,163; Feb. 2. Class 6.

Linck, Otto E., doing business as Soilicide Laboratories, Montclair, N. J. Chemical preparation. Serial No. 453,247; Feb. 2. Class 6.

Lincoln Motor Company, Detroit, assignor to Ford Motor Company, Dearborn, Mich. Vehicle heaters and defrosters. Serial No. 427,586; Feb. 2. Class 19.

Lowenstein, M., & Sons, Inc., New York, N. Y. Cotton and/or rayon piece goods. Serial No. 457,223; Feb. 2. Class 42.

Lucarelli, Ernest, & Co., Canastota, N. Y. Onions in their natural state. Serial No. 454,928; Feb. 2. Class 46.

Manufacturers Chemical Corporation, Berkeley Heights, N. J. Cellulose acetate plastic molding materials. Serial No. 455,398; Feb. 2. Class 1.

Maus, Geo. H., Inc., Amsterdam, N. Y. Bamboo vaulting poles and bamboo ski poles. Serial No. 454,831; Feb. 2. Class 22.

Metro Chocolate Co. Inc., The, New York, N. Y. Candies. Serial No. 445,998; Feb. 2. Class 46.

Monaghan, Elizabeth, Inc., Detroit, Mich. Bread. Serial No. 453,461; Feb. 2. Class 46.

Moorman Manufacturing Company, Quincy, Ill. Mechanical feed mixers for mixing feeds for farm animals. Serial No. 447,818; Feb. 2. Class 23.

Morris, Charles E., doing business as C. E. Morris and Company, Dallas, Tex. Cement pipes, cement conduits, cement stacks, etc. Serial No. 456,989; Feb. 2. Class 12.

Mutual Printing Company, Philadelphia, Pa. Writing paper and envelopes. Serial No. 454,781; Feb. 2. Class 37.

National Drug and Chemical Company of Canada, Limited, Montreal, Canada. Toilet preparation for the hair. Serial No. 452,649; Feb. 2. Class 6.

National Retailer-Owned Grocers, Inc., Chicago, Ill. Sanitary napkins. Serial No. 457,315; Feb. 2. Class 44.

Neville Company, The, Neville Island, Pittsburgh, Pa. Liquid hydrocarbon solvents of general use in the industrial arts and particularly as a substitute for toluol. Serial No. 457,067; Feb. 2. Class 6.

Norris, John L., Jr., doing business as Vello Products, Lyndonville, Vt. Ointment for minor cuts and burns and for cold cream. Serial No. 455,889; Feb. 2. Class 6.

Northam Warren Corporation, Stamford, Conn. Electrical insulator plugs. Serial No. 456,720; Feb. 2. Class 21.

Para Ti Corporation, New York, N. Y. Soap. Serial No. 456,103; Feb. 2. Class 4.

Paraloy Co., The. (See Williamson, F. E.)

Parke, Davis & Company, Detroit, Mich. Vitamin preparation. Serial No. 457,249; Feb. 2. Class 6.

Philco Corporation, Philadelphia, Pa. Battery parts and supplies. Serial No. 454,374; Feb. 2. Class 21.

Plax Corporation, Hartford, Conn. Plastic composition in sheet form. Serial No. 456,431; Feb. 2. Class 50.

Remington Rand Inc., Buffalo, N. Y. Dry shavers and parts thereof. Serial Nos. 457,281–2; Feb. 2. Class 23.

Renart Sportswear Corp., New York, N. Y. Women's and girls' sweaters. Serial No. 455,277; Feb. 2. Class 39.

Richards, Joshua M., Boston, Mass. Paint. Serial No. 456,496; Feb. 2. Class 16.

Riverside & Dan River Cotton Mills, Inc., Danville, Va., and New York, N. Y. Men's and women's shirts, slacks, and ensembles. Serial No. 455,350; Feb. 2. Class 39.

Sherman, Sol, doing business as Sherman Bows, New York, N. Y. Swimming suits for men, women, and children; swimming trunks, beach robes, etc. Serial No. 456,835; Feb. 2. Class 39.

Singer Manufacturing Company, The, Elizabeth, N. J. Surgical stitching instruments, their parts and attachments. Serial No. 455,383; Feb. 2. Class 44.

Si-Si Food Company, New York, N. Y. Salad dressing. Serial No. 452,436; Feb. 2. Class 46.
Soilicide Laboratories. (See Linck, Otto E.)
Southern Citrus Association, Redlands, Calif. Fresh citrus fruits. Serial No. 456,327; Feb. 2. Class 46.
Spectratone, Inc., Berkeley, Calif. Three-color screened plates for letter press printing, rotary press printing, newspaper printing, etc. Serial No. 457,176; Feb. 2. Class 23.
Superb Glove Company, The, Johnstown, N. Y. Men's gloves. Serial No. 457,147; Feb. 2. Class 39.
Swedish Crucible Steel Company, Detroit, Mich. Toilet seats. Serial No. 456,252; Feb. 2. Class 13.
Tamis, Louis, & Son, New York, N. Y. Cigarette cases, cigar cases, vanities, etc. Serial No. 455,771; Feb. 2. Class 28.
Troy, Seymour, New York, N. Y. Shoes. Serial No. 457,020; Feb. 2. Class 39.
Unicon Company, Kansas City, Mo. Hollow sheet metal and wood building blocks, portable sectional buildings, and parts for portable sectional buildings. Serial No. 456,575; Feb. 2. Class 12.
United States Department of Agriculture, Washington, D. C. Live poultry and eggs. Serial Nos. 455,035–40; Feb. 2. Class 46.
Victor Syrup Corporation, Long Island City, N. Y. Syrup, concentrates, and extracts for beverages sold as soft drinks. Serial No. 454,484; Feb. 2. Class 45.
Vello Products. (See Norris, John L., Jr.)
W. B. Associates, New York, N. Y. Cuticle lubricant. Serial No. 454,644; Feb. 2. Class 6.
Warfield Company, The, Chicago, Ill. Meat saver, an all vegetable product. Serial No. 456,618; Feb. 2. Class 46.
Westinghouse Air Brake Company, Borough of Wilmerding, Pa. Fluid pressure control selector valves for marine control equipments. Serial No. 457,323; Feb. 2. Class 23.
Williamson, F. E., doing business as The Paraloy Co., Chicago, Ill. Phonograph needles. Serial No. 456,280; Feb. 2. Class 36.
York Pharmacal Company, St. Louis, Mo. Dry cleaning fluid. Serial No. 452,341; Feb. 2. Class 4.
Zenith Radio Corporation, Chicago, Ill. Radio and television receiving sets and parts thereof. Serial Nos. 454,441–2; Feb. 2. Class 21.
Ziff-Davis Publishing Company, Chicago, Ill. Periodical. Serial No. 457,024; Feb. 2. Class 38.

LIST OF REGISTRANTS OF TRADE-MARKS

A. P. W. Paper Company, Inc., Albany, N. Y. Paper towels. 399,886; Feb. 2; Serial No. 455,466; published Nov. 24, 1942. Class 37.
Aeronautical Digest Publishing Corporation, The, New York, N. Y. Section of a periodical publication. 399,809; Feb. 2; Serial No. 450,559; published Nov. 10, 1942. Class 38.
Ahrens, Charles R., New York, N. Y. Friction tape and for splicing compound. 399,853; Feb. 2; Serial No. 454,773; published Nov. 24, 1942. Class 21.
Air Conditioning Utilities Company. (See Fiedler, Harry W.)
Aircraft Tools, Inc., Los Angeles, Calif. Counter-sinks, back spotfacers, rivet sinks, etc. 399,918; Feb. 2. Class 23.
Alabama-Georgia Syrup Company, Montgomery, Ala. Syrup. 399,907; Feb. 2; Serial No. 455,943; published Nov. 24, 1942. Class 46.
Alien Property Custodian. (See Muhlens & Kropff, Incorporated.)
Allied Steel Products, Inc., Cleveland, Ohio. Tractor grip lugs. 399,898; Feb. 2; Serial No. 455,619; published Nov. 24, 1942. Class 23.
American Bitumuls Company, Wilmington, Del., and San Francisco, Calif. Asphalt, asphalt compositions, asphalt emulsions. 399,804; Feb. 2; Serial No. 449,659; published Nov. 24, 1942. Class 12.
American Brake Shoe and Foundry Company, The, New York, N. Y. Vehicle wheels and truck caster wheels. 399,877; Feb. 2; Serial No. 455,197; published Nov. 3, 1942. Class 19.
American Brass Company, The. (See Waterbury Brass Goods Corporation, The, assignor.)
American Lead Pencil Company, New York, N. Y. Lead pencils. 22,273; re-renewed Dec. 27, 1942.
American Products Company. (See Mills Brothers Company, The.)
American Shower Cabinet Co., Inc., New York, N. Y. Portable shower cabinets. 399,863; Feb. 2; Serial No. 455,013; published Oct. 27, 1942. Class 13.
American Tobacco Company, The. (See Havana Cigar and Tobacco Factories, Ltd., assignor.)
Amercian Tobacco Company, The. (See Valle, M., y Ca., Inc., assignor.)
Anderson, V. D., Company, The, Cleveland, Ohio. Steam traps. 399,883; Feb. 2; Serial No. 455,387; published Nov. 24, 1942. Class 13.
Ardath Tobacco Company, Limited, assignor to Ardath Tobacco Company, Limited, London, England. Smoking tobacco. 167,174; renewed Apr. 24, 1943.
Arnold, Schwinn & Co., Chicago, Ill. Bicycles. 399,888; Feb. 2; Serial No. 455,496; published Nov. 10, 1942. Class 19.
Ashby, Don., doing business as Spokesman Press, Grundy Center, Iowa. Periodical. 399,865; Feb. 2; Serial No. 455,063; published Nov. 17, 1942. Class 38.
Associated Lerner Shops of America, Inc., New York, N. Y. Women's and girls' dresses. 399,878; Feb. 2; Serial No. 455,199; published Nov. 17, 1942. Class 39.
Babbitt, B. T., Inc. (See Schield, Wm., Mfg. Co., assignor.)
Baldwin Locomotive Works, The. (See Standard Steel Works Company, assignor.)
Barbour, Roswell C., doing business as The Barbour Company, St. Louis, Mo. Leather dressing. 399,836; Feb. 2; Serial No. 454,097; published Nov. 24, 1942. Class 4.
Basch, Herman, & Co., Inc., New York and Brooklyn, N. Y., assignor to Herman Basch & Co. Inc., North Bergen, N. J. Fur skins dressed and dyed. 167,946; renewed May 8, 1943.
Behr, Herman, & Company, Incorporated, Brooklyn, to Behr-Manning Corporation, Troy, N. Y., by consolidation. Abrasive papers and cloth. 168,942; renewed May 29, 1943.
Bernhardt, Max E., assignor, by mesne assignments, to D. A. Schulte, Inc., New York, N. Y. Smokers' articles. 169,199; renewed June 12, 1943.
Billings & Spencer Company, The, Hartford, Conn. Tools and for machinery. 399,829; Feb. 2; Serial No. 453,429; published Nov. 10, 1942. Class 23.
Botany Worsted Mills, Passaic, N. J. Publication. 399,858; Feb. 2; Serial No. 454,904; published Nov. 17, 1942. Class 38.
Bradley, Milton, Company, Springfield, Mass. Games. 399,810; Feb. 2; Serial No. 450,845; published Nov. 24, 1942. Class 22.
Brewer-Titchener Corporation, The, Cortland, N. Y. Foldable ironing tables. 399,912; Feb. 2. Class 24.
Burlington Mills Corporation, Greensboro, N. C. Hosiery. 399,872; Feb. 2; Serial No. 455,170; published Nov. 24, 1942. Class 39.
Burns, Jabez, & Sons, Inc., New York, N. Y. Machines for grinding, cracking or otherwise treating coffee and other materials. 399,839; Feb. 2; Serial No. 454,246; published Nov. 24, 1942. Class 23.
Carboloy Company, Inc., Van Dyke, Detroit, Mich. Tools, dies, bushings, etc. 399,869; Feb. 2; Serial No. 455,152; published Nov. 24, 1942. Class 23.
Case, W. R., and Son's Cutlery Company, Bradford, Pa. Table carving knives and table carving sets. 399,840; Feb. 2; Serial No. 454,356; published Nov. 17, 1942. Class 23.
Case, W. R., and Son's Cutlery Company, Bradford, Pa. Table carving knives and table carving sets. 399,841–3; Feb. 2; Serial Nos. 454,358–60; published Nov. 17, 1942. Class 23.
Celotex Corporation, The, Chicago, Ill. Heat insulating building materials. 399,830; Feb. 2; Serial No. 453,431; published Oct. 20, 1942. Class 12.
Chore Utensils Corporation of America, The, Orange, assignor, by mesne assignments, to Metal Textile Corporation, West Orange, N. J. Scouring utensils. 163,807; renewed Jan. 30, 1943.
Columbian Steel Tank Company. (See Kramer, Andrew A.)
Columbus Plastic Products Inc., Columbus, Ohio. Basin, tub, sink, and tray stoppers. 399,873; Feb. 2; Serial No. 455,173; published Oct. 27, 1942. Class 13.
Constantine Dress Company, Boston, Mass. Women's and misses' dresses. 399,874; Feb. 2; Serial No. 455,176; published Nov. 17, 1942. Class 39.
Coolerator Company, The, Duluth, Minn. Ligno-cellulose sheets and boards. 399,818; Feb. 2; Serial No. 452,307; published Nov. 3, 1942. Class 12.
Crane Co., Chicago, Ill. Valves and pipe fittings. 399,837; Feb. 2; Serial No. 454,099; published Nov. 10, 1942. Class 13.
Crown Zellerbach Corporation, San Francisco, Calif. Bathroom cleansing tissue, paper towels, toilet paper, etc. 399,887; Feb. 2; Serial No. 455,475; published Nov. 24, 1942. Class 37.
Cutler-Magner Co., Duluth, Minn., by change of name to Cutler-Magner Company. Construction materials. 163,046; renewed Jan. 2, 1943.
De Cabanas, H., y Carbajal, Jersey City, N. J., and New York, N. Y., to H. de Cabanas y Carbajal, Trenton, N. J. Cigars. 168,631; renewed May 29, 1943.
De Gaw, Boyce, Beverly Hills, Calif. Feature column. 399,796; Feb. 2; Serial No. 446,692; published Nov. 24, 1942. Class 38.
Dessart Brothers, Inc., Brooklyn, N. Y. Masquerade outfits. 169,185–7; renewed June 12, 1943.

Detective Comics, Inc., New York, N. Y. Magazine. 399,870; Feb. 2; Serial No. 455,153; published Nov. 17, 1942. Class 38.
Dexter Woolen Corporation, New York, N. Y. Textile fabric piece goods. 399,917; Feb. 2. Class 42.
Di Frances, Anthony, Milwaukee, Wis. Cleaner for floors, walls, and the like. 399,820; Feb. 2; Serial No. 452,417; published Nov. 24, 1942. Class 4.
Distillation Products, Inc., Rochester, N. Y. Vacuum pumps and parts thereof, stills and parts thereof, installation apparatus for controlling the temperature of cooling fluid, etc. 399,831; Feb. 2; Serial No. 453,435; published Nov. 17, 1942. Class 23.
Duotone Company, Inc., New York, N. Y. Phonograph needles. 399,915; Feb. 2. Class 36.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Polishes acting as grease removers and cleaning materials, metal polish; solutions for surfacing, finishing, and renewing leather, leather substitutes, and fabrics. 162,498; renewed Dec. 19, 1942.
Durkee Marine Products Corporation, Grasmere, Staten Island, N. Y. Sea anchors, gasoline and oil filler caps, sheet blocks, etc. 399,890; Feb. 2; Serial No. 455,530; published Nov. 10, 1942. Class 19.
Durkee Marine Products Corporation, Grasmere, Staten Island, N. Y. Blocks, pulleys, sheaves, etc. 399,891; Feb. 2; Serial No. 455,532; published Nov. 24, 1942. Class 23.
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Tray siphons, variable outlet drain controls, drain stopper and adjustable drainage control combinations, and hose connections having suction cups. 399,847; Feb. 2; Serial No. 454,631; published Nov. 17, 1942. Class 13.
Edwards, Alvin C., doing business as Magic Cam Co., Cincinnati, Ohio. Piston expanders. 399,795; Feb. 2; Serial No. 446,197; published Nov. 24, 1942. Class 23.
Elmo, Inc., Philadelphia, Pa. Deodorants. 168,410; renewed May 22, 1943.
Elram Lamp Works, Hoboken, N. J. Incandescent electric light bulbs. 399,892; Feb. 2; Serial No. 455,533; published Nov. 24, 1942. Class 21.
Ely & Walker Dry Goods Company, St. Louis, Mo. Bedquilts, bedspreads, and counterpanes. 165,690; renewed Mar. 20, 1943.
Fabric Products Manufacturing Company, Chicago, Ill. Garment bags and blanket bags. 399,844; Feb. 2; Serial No. 454,445; published Nov. 24, 1942. Class 2.
Favorite Stove Company, The, Piqua, Ohio. Heating equipment and parts of such equipment. 399,857; Feb. 2; Serial No. 454,886; published Nov. 17, 1942. Class 34.
Fawcett Publications, Inc., Greenwich, Conn. Comic strip or section of a periodical publication. 399,792; Feb. 2; Serial No. 444,825; published Nov. 17, 1942. Class 38.
Fiedler, Harry W., doing business as Air Conditioning Utilities Company, New York, N. Y. Equipment for ventilating systems. 399,882; Feb. 2; Serial No. 455,369; published Nov. 10, 1942. Class 34.
Fine Foods, Inc., Seattle, Wash. Food products. 399,854; Feb. 2; Serial No. 454,801; published Nov. 24, 1942. Class 46.
Fisher Flouring Mills Company, Harbour Island, Seattle, Wash. Wheat flour and breakfast cereal. 399,790; Fib. 2; Serial No. 443,121; published Nov. 24, 1942. Class 46.
Flintkote Company. (See Heppes-Nelson Roofing Company, The.)
Florida Citrus Exchange, Tampa, Fla. Fresh citrus fruits. 169,047; renewed June 5, 1943.
Ford Roofing Products Company, Chicago, Ill. Prepared shingles. 399,833; Feb. 2; Serial No. 453,617; published Nov. 3, 1942. Class 12.
Formica Insulation Company, The, Cincinnati, Ohio. Electrically non-conductive shop and mill truck wheels. 399,875; Feb. 2; Serial No. 455,180; published Oct. 20, 1942. Class 19.
Fort Orange Chemical Company. (See Popp, William J., assignor.)
Fretz, William F., & Son, Doylestown, Pa. Trousers. 399,794; Feb. 2; Serial No. 445,845; published Apr. 7, 1942. Class 39.
Friedman, Hugo, doing business as The Hugo Friedman Mfg. Co., to Hugo Friedman, doing business as The Hu-Friedy Mfg. Co., Chicago, Ill. Dental appliances 162,754; renewed Dec. 26, 1942.
Gaines, Max C., New York, N. Y. Magazine. 399,914; Feb. 2. Class 38.
General Cigar Co., Inc., New York, N. Y. Cigars. 165,753; renewed Mar. 20, 1943.
Gillette Safety Razor Company, Boston, Mass. Safety razors. 399,921–7; Feb. 2. Class 23.
Goodman & Suss Clothes Corporation, New York, N. Y. Men's coats, vests, trousers, etc. 399,788; Feb. 2; Serial No. 440,589; published May 5, 1942. Class 39.
Goodyear Tire & Rubber Company, The. (See Marathon Tire & Rubber Company, The, assignor.)
Green, Emmet M., Los Angeles, Calif. Fastening devices in the form of a combined screw and rivet. 399,876; Feb. 2; Serial No. 455,181; published Oct. 27, 1942. Class 13.
Greenman, Harry D., doing business under the name of Maximlock Company, Brooklyn, N. Y. Hinges for boxes. 399,884; Feb. 2; Serial No. 455,453; published Nov. 24, 1942. Class 13.
Grey, Peter, Oakland, Calif. Phonograph needle. 399,797; Feb. 2; Serial No. 447,330; published Nov. 24, 1942. Class 36.
Haskelite Manufacturing Corporation, Chicago, Ill. Table board game. 399,903; Feb. 2; Serial No. 455,692; published Nov. 24, 1942. Class 22.
Havana Cigar and Tobacco Factories, Ltd., assignor, by mesne assignments, to The American Tobacco Company, New York, N. Y. Cigars. 164,369; renewed Feb. 20, 1943.
Heppes-Nelson Roofing Company, The, Chicago, Ill., assignor to The Richardson Company, assignor, by mesne assignments, to The Flintkote Company, New York, N. Y. Prepared roofing, building board, building paper, etc. 163,088; renewed Jan. 2, 1943.
Hill-Shaw Company, Chicago, Ill. Glass coffee brewers. 399,805; Feb. 2; Serial No. 449,736; published Mar. 3, 1942. Class 13.
Holmes-Hemphill Company, Minneapolis, Minn. Rock wool. 399,822; Feb. 2; Serial No. 452,532; published Nov. 10, 1942. Class 12.
Hu-Friedy Mfg. Co., The. (See Friedman, Hugo.)
Hudson Motor Car Company, Detroit, Mich. Automobile heaters. 399,793; Feb. 2; Serial No. 445,096; published Oct. 27, 1943. Class 19.
Ideal Coated Paper Company, assignor to McLaurin-Jones Co., assignor to McLaurin-Jones Co., Brookfield, Mass. Gummed paper and gummed cloth in sheets and strips. 168,672; renewed May 29, 1943.
International Silver Company, Meriden, Conn. Hollow silverware and hollow silverplated ware. 165,269; renewed Mar. 6, 1943.
Irving-Pitt Manufacturing Company, Kansas City, Mo., assignor, by mesne assignments, to Wilson Jones Company Chicago, Ill. Loose-leaf binders. 163,473; renewed Jan. 16, 1943.
Johns-Manville Corporation, New York, N. Y. Thermal insulation. 399,814; Feb. 2; Serial No. 451,568; published Nov. 10, 1942. Class 12.
Kedmont Manufacturing & Waterproofing Co. (See Van Wolf, A. F.)
Kimble Glass Company, Vineland, N. J. Glass rods, glass tubing, and glass containers. 399,812; Feb. 2; Serial No. 451,442; published Oct. 20, 1942. Class 33.
Kimble Glass Company, Vineland, N. J. Glass rods, glass tubing, and glass containers. 399,813; Feb. 2; Serial No. 451,445; published Oct. 20, 1942. Class 33.
King Plastics Corporation, Denver, Colo. Airplane seats. 399,848; Feb. 2; Serial No. 454,659; published Nov. 17, 1942. Class 19.
Koehring Company, Milwaukee, Wis. Shovels, cranes, pavement raising machines, etc. 399,803; Feb. 2; Serial No. 449,646; published Nov. 10, 1942. Class 23.
Kono, Alexander, doing business as The Kono Manufacturing Company, Woodside, N. Y. Eye-glass and spectacle frames and parts therefor. 399,899; Feb. 2; Serial No. 455,626; published Nov. 24, 1942. Class 26.
Kramer, Andrew A., doing business as Columbian Steel Tank Company, to Columbian Steel Tank Company, Kansas City, Mo., successor. Sheet-metal tanks. 165,074; renewed Mar. 6, 1943.
Lang, F. S., Manufacturing Company, Seattle, Wash Stoves, ranges, and ovens. 399,827–8; Feb. 2; Serial Nos. 453,386–7; published Nov. 17, 1942. Class 34.
Liggett & Myers Tobacco Company, New York, N. Y. Tobacco and cigarettes. 168,082; renewed May 15, 1943.
Lone Star Cement Corporation, New York, N. Y. Portland cement. 399,789; Feb. 2; Serial No. 441,972; published Nov. 3, 1942. Class 12.
Lubbers & Bell Mfg. Co., assignor to Lubbers & Bell Mfg. Co., Clinton, Iowa. Fly swatters. 163,113; renewed Jan. 2, 1943.
Luma Incorporated, New York, N. Y. Portable photographic printing machine reproducing by contact exposure without lenses. 399,787; Feb. 2; Serial No. 434,535; published Nov. 3, 1942. Class 26.
Mabley and Carew Company, Cincinnati, Ohio. Cloaks, wraps, and suits for ladies outer wear. 168,183; renewed May 15, 1943.
Magic Cam Co. (See Edwards, Alvin C.)
Mallory, P. R., & Co., Inc., Indianapolis, Ind. Nonferrous metals, nonferrous alloys, and nonferrous sintered metal compositions. 399,919; Feb. 2. Class 14.
Mandel & Cohen, assignor, by mesne assignments, to Max Mandel, New York, N. Y. Hosiery, underwear; and sweaters. 164,807; renewed Feb. 27, 1943.
Marathon Tire & Rubber Company, The, Cuyahoga Falls, assignor, by mesne assignments, to The Goodyear Tire & Rubber Company, Akron, Ohio. Belts for supporting outer garments. 166,606; renewed Apr. 10, 1943.
Maximlock Company. (See Greenman, Harry D.)
Mayer Manufacturing Corporation, Brooklyn, N. Y. Machines used in industrial establishments. 399,849; Feb. 2; Serial No. 454,662; published Nov. 10, 1942. Class 34.
McLaurin-Jones Co. (See Ideal Coated Paper Company, assignor.)
McLaurin-Jones Co., Brookfield, Mass. Coated book papers. 168,699; renewed May 29, 1943.
McLoughlin Bros., Inc., Springfield, Mass. Series of books. 399,855; Feb. 2; Serial No. 454,854; published Nov. 24, 1942. Class 38.
Messing Knitwear, Inc., New York, N. Y. Women's clothing. 399,916; Feb. 2. Class 39.
Metal Textile Corporation. (See Chore Utensils Corporation of America, The, assignor.)

Michigan Chemical Corporation, doing business as Michigan Salt Company, St. Louis, Mich. Salt packed in bulk and primarily used as or an ingredient for animal feeds. 399,801; Feb. 2; Serial No. 448,367; published Nov. 24, 1942. Class 46.

Midwest Manufacturing & Engineering Corp., Boston, Mass. Wall and door racks for ties, belts, collar buttons, etc. 399,823; Feb. 2; Serial No. 452,911; published Nov. 17, 1942. Class 13.

Mills Brothers Company, The, doing business as American Products Company, assignor, by mesne assignments, to The Zanol Products Company, Cincinnati, Ohio. Salad-dressing powder and cake-icing powder. 169,213; renewed June 12, 1943.

Muhlens & Kropff, Incorporated, New York, N. Y.; vested in the Alien Property Custodian. Toilet soaps. 162,561; renewed Dec. 19, 1942.

Munsingwear Corporation, The, assignor to Munsingwear, Inc., Minneapolis, Minn. Underwear and hosiery. 169,038; renewed June 5, 1943.

Mutual Chemical Co. of America, New York, N. Y. Chemicals such as bichromate of potash and bichromate of soda. 167,233; renewed Apr. 24, 1943.

Myers, Harold C., doing business as E. B. Myers Co., Los Angeles, Calif. Women's and men's clothing. 399,811; Feb. 2; Serial No. 450,879; published June 9, 1942. Class 39.

Narrow Fabric Co., The, West Reading, to The Narrow Fabric Company, Reading, Pa. Woven and braided trimmings. 162,839; renewed Dec. 26, 1942.

National Association of Food Chains, Wilmington, Del., and Washington, D. C. Home economics bulletins, menu cards, recipes, etc. 399,834; Feb. 2; Serial No. 453,990; published Nov. 17, 1942. Class 38.

National Foam System, Inc., Philadelphia, Pa. Nozzles, suction proportioners, and pressure proportioners for the extinguishment of fires. 399,808; Feb. 2; Serial No. 450,514; published Nov. 24, 1942. Class 23.

National Gypsum Company, Buffalo, N. Y. Rock wool. 399,866; Feb. 2; Serial No. 455,122; published Oct. 27, 1942. Class 12.

National Mattress Company, Huntington, W. Va. Mattresses. 399,908; Feb. 2; Serial No. 456,024; published Nov. 24, 1942. Class 32.

National Oil Products Company, Harrison, N. J. Plasticizer in the production of masonry cement and in the molding of cement blocks. 399,800; Feb. 2; Serial No. 448,297; published Nov. 3, 1942. Class 12.

New Jersey Wood Finishing Company, Woodbridge, N. J. Electrical insulation material. 399,821; Feb. 2; Serial No. 452,455; published Nov. 24, 1942. Class 21.

Newland, Schneeloch & Piek, Inc., New York, N. Y. Glass dishes. 399,850; Feb. 2; Serial No. 454,666; published Nov. 24, 1942. Class 33.

New York Girl Coat Co., Inc., New York, N. Y. Coats for women, misses, and children. 399,895; Feb. 2; Serial No. 455,572; published Nov. 17, 1942. Class 39.

Nickels & Lauber, Inc., Philadelphia, Pa., assignor to Nickels & Lauber, Inc., New York, N. Y. Hosiery, scarfs, neckties, and mufflers. 168,186; renewed May 15, 1943.

North American Cement Corporation. (See Security Cement & Lime Co., assignor.)

North Whittier Heights Citrus Ass'n, assignor to North Whittier Heights Citrus Association, Puente, Calif. Citrus fruits. 164,735; renewed Feb. 27, 1943.

North Whittier Heights Citrus Ass'n, assignor to North Whittier Heights Citrus Association, Puente, Calif. Fresh citrus fruits. 165,986; renewed Mar. 27, 1943.

Northern Cold Storage & Warehouse Company. (See Wenatchee Northern Warehouse & Marketing Co., assignor.)

Oakley, Annie, Company, Fort Wayne, Ind. Targets for pistols and rifles. 399,817; Feb. 2; Serial No. 452,273; published Nov. 24, 1942. Class 22.

Ohio Leather Company, The, Girard, Ohio. Leather. 169,049; renewed June 5, 1943.

Olympia Canning Company, Olympia, Wash. Canned fruits. 168,374; renewed May 22, 1943.

Olympia Canning Company, Olympia, Wash. Canned fruits. 168,615; renewed May 29, 1943.

Osborne, Beverly, Oklahoma City, Okla. Drinking glasses. 399,816; Feb. 2; Serial No. 451,752; published Oct. 27, 1942. Class 33.

Oxo, Limited, London, England. Extract of meat, tongues, meat meal, a food for cattle, and preserved meat. 166,084; renewed Mar. 27, 1943.

Palmer, Everett A., doing business as Palmer-Smith, Grove City, Pa. Hand wrought aluminum art goods and gift wares. 399,786; Feb. 2; Serial No. 404,089; published Jan. 28, 1941. Class 13.

Penick & Ford, Ltd., Incorporated, New Orleans, La., to Penick & Ford, Ltd., Inc., New York, N. Y. Molasses. 169,344; renewed June 12, 1943.

Pepperell Manufacturing Company, Boston, Mass. Men's and boys' shirts. 399,845; Feb. 2; Serial No. 454,461; published Nov. 24, 1942. Class 39.

Phillips-Jones Corporation, New York, N. Y. Shirts, collars, pyjamas, etc. 169,173; renewed June 12, 1943.

Pierce Watch Company, Inc., New York, N. Y. Watches. 399,864; Feb. 2; Serial No. 455,030; published Nov. 24, 1942. Class 27.

Plan-O-Mill Corporation, Royal Oak, Mich. Milling machines. 399,846; Feb. 2; Serial No. 454,541; published Nov. 17, 1942. Class 23.

Plastyle Veneers, Inc., Chicago, Ill. Fabricated plastic material of a phenol-formaldehyde-urea type. 399,791; Feb. 2; Serial No. 443,513; published July 29, 1941. Class 1.

Plee-Zing, Inc., Chicago, Ill. Dried apricots, canned green beans, canned corn on the cob, etc. 399,825; Feb. 2; Serial No. 453,216; published Nov. 24, 1942. Class 46.

Popp, William J., doing business as Fort Orange Chemical Company, assignor to Fort Orange Chemical Co., Inc., Albany, N. Y. Hand soap. 168,599; renewed May 29, 1943.

Powell Knitting Company, The, Philadelphia, Pa., assignor to Sears, Roebuck and Co., Chicago, Ill. Hosiery. 166,690; renewed Apr. 10, 1943.

Quaker Oats Company, The, Chicago, Ill. Rolled oats. 399,859; Feb. 2; Serial No. 454,949; published Nov. 24, 1942. Class 46.

Raffertto, R. B., Inc., New York, N. Y. Marrons and assorted fruits. 165,977; renewed Mar. 27, 1943.

Raffetto, G. B., Inc., New York, N. Y. Sweet-pickled fruits. 164,170; renewed Feb. 13, 1943.

Red Hed Mfg Co., assignor to Red Hed Mfg. Co., Boston, Mass. Cocks, stop and waste, and corporation. 169,346–7; renewed June 12, 1943.

Reed, Charles H., Cambridge, Mass. Games of skill and amusement. 399,906; Feb. 2; Serial No. 455,828; published Nov. 24, 1942. Class 22.

Renart Sportswear Corp., New York, N. Y. Women's and girls' sweaters and coats. 399,871; Feb. 2; Serial No. 455,166; published Nov. 17, 1942. Class 39.

Richardson Company, The. (See Heppes-Nelson Roofing Company, The, assignor.)

Rogers Diesel and Aircraft Corporation, New York, N. Y. Diesel engines. 399,896; Feb. 2; Serial No. 455,574; published Nov. 17, 1942. Class 23.

St. Louis Macaroni Mfg. Co., St. Louis, Mo. Soup mix. 399,901; Feb. 2; Serial No. 455,682; published Nov. 24, 1942. Class 46.

Salz Bros. Inc., New York, N. Y. Fountain pens. 169,334; renewed June 12, 1943.

Sawyer-Hare Furnace Company, Detroit, Mich. Furnace. 399,835; Feb. 2; Serial No. 454,017; published Oct. 27, 1942. Class 34.

Schield, Wm., Mfg. Co., St. Louis, Mo., assignor to B. F. Babbitt, Inc., Albany, N. Y. Lye. 168,245; renewed May 15, 1943.

Schulte, D. A., Inc. (See Bernhardt, Max E., assignor.)

Schwab Furnace Company, Milwaukee, Wis. Stokers, incinerators, blowers, etc. 399,880; Feb. 2; Serial No. 455,313; published Nov. 24, 1942. Class 34.

Sears, Roebuck and Co. (See Powell Knitting Company, The, assignor.)

Sears, Roebuck and Co., Chicago, Ill. Work pants. 164,747; renewed Feb. 27, 1943.

Sears, Roebuck and Co., Chicago, Ill. Coal and wood ranges. 399,851; Feb. 2; Serial No. 454,700; published Nov. 17, 1942. Class 34.

Seco Leather Products Company, West New York, N. J. Bill folds. 399,860; Feb. 2; Serial No. 454,991; published Nov. 24, 1922. Class 3.

Seco Leather Products Company, West New York, N. J. Bill folds. 399,861–2; Feb. 2; Serial Nos. 454,993–4; published Nov. 24, 1942. Class 3.

Security Cement & Lime Co., Hagerstown, Md., assignor to North American Cement Corporation, New York, N. Y. Portland cement. 168,650; renewed May 29, 1943.

Select-A-Key Company, San Francisco, Calif. Printed orchestration sets. 399,879; Feb. 2; Serial No. 455,211; published Nov. 24, 1942. Class 38.

Seymour Packing Company, The, Topeka, Kans. Dressed poultry and eggs. 167,137–8; renewed Apr. 24, 1943.

Seymour Packing Company, The, Topeka, Kans. Dressed poultry. 167,139; renewed Apr. 24, 1943.

Seymour Packing Company, The, Topeka, Kans. Dressed poultry. 167,223; renewed Apr. 24, 1943.

Shane, C. B., Co., assignor to C. B. Shane Corporation, Chicago, Ill. Raincoats and topcoats. 164,777; renewed Feb. 27, 1943.

Sherwin–Williams Company, The, Cleveland, Ohio. Rolling device for the application of paints and kindred products. 399,867; Feb. 2; Serial No. 455,125; published Nov. 10, 1942. Class 23.

Siegfried, H., & Sons, Inc., St. Louis, Mo. Men's and boys' trousers. 399,897; Feb. 2; Serial No. 455,602; published Nov. 17, 1942. Class 39.

Simmonds Products Limited, Brentford, England. Composition (in the nature of varnish). 399,802; Feb. 2; Serial No. 448,769; published Nov. 24, 1942. Class 16.

Smith Tablet Company, Inc., The, Holyoke, Mass., assignor to Western Tablet & Stationery Corporation, Dayton, Ohio. Paper and stationery. 169,365; renewed June 12, 1943.

Sonnenschein, J., Hop Co., Inc., New York, N. Y. Hops. 399,900; Feb. 2; Serial No. 455,677; published Nov. 24, 1942. Class 1.

Sonotone Corporation, Elmsford, N. Y. Apparatus for measuring hearing. 399,904; Feb. 2; Serial No. 455,713; published Nov. 24, 1942. Class 26.

Spokesman Press. (See Ashby, Don.)

Standard Steel Works Company, Philadelphia, assignor to The Baldwin Locomotive Works, Eddystone, Pa. Solid forged gear blanks, iron castings, and iron forgings, etc. 164,829; renewed Feb. 27, 1943.

Standard Steel Works Company, Philadelphia, assignor to The Baldwin Locomotive Works, Eddystone, Pa. Forged and rolled steel pipe flanges. 165,484; renewed Mar. 13, 1943.

Standard Steel Works Company, Philadelphia, assignor to The Baldwin Locomotive Works, Eddystone, Pa. Rings and rolled shells for crushers for reducing and pulverizing solid materials. 166,037; renewed Mar. 27, 1943.

Stanley, William W., Co., Inc., New York, N. Y. Acid and alkali proof cotton textile fabrics. 399,806; Feb. 2; Serial No. 450,080; published Nov. 24, 1942. Class 50.

Stolper, Harry, Inc., New York, N. Y. Spectacles and eye-glasses. 399,885; Feb. 2; Serial No. 455,461; published Nov. 24, 1942. Class 26.

Straub, W. F., & Company, Chicago, Ill. Prune juice. 399,920; Feb. 2. Class 46.

Sun-Fire Stoker Corporation, New Albany, Ind. Automatic stokers. 399,824; Feb. 2; Serial No. 453,188; published Nov. 17, 1942. Class 34.

Sun Maid Raisin Growers, assignor to Sun-Maid Raisin Growers of California, Fresno, Calif. Candy and candy filler. 167,816; renewed May 8, 1943.

Supreme Knitwear Co., St. Louis, Mo. Women's sweaters. 399,902; Feb. 2; Serial No. 455,684; published Nov. 24, 1942. Class 39.

Teen Frocks, Inc., New York, N. Y. Misses' and girls' combined blouse and slacks. 399,819; Feb. 2; Serial No. 452,365; published June 16, 1942. Class 39.

Terven, Lewis, Salinas, Calif. Fresh vegetables. 399,909; Feb. 21; Serial No. 456,158; published Nov. 24, 1942. Class 46.

Texas Belting Company, assignor to Texas Belting & Supply Co., Inc., Houston, Tex. Leather belts. 169,317; renewed June 12, 1943.

Texas Prefabricated House and Tent Co., Dallas, Tex. Prefabricated structures. 399,852; Feb. 2; Serial No. 454,705; published Oct. 27, 1942. Class 12.

Timken-Detroit Axle Company, The. (See Vickers Manufacturing Corporation, assignor.)

Union Bag & Paper Corporation, Jersey City, N. J., and New York, to Union Bag & Paper Corporation, New York, N. Y. Paper bags. 165,849; renewed Mar. 20, 1943.

United Feature Syndicate, Inc., New York, N. Y. Comic drawings published in a series. 399,910–11; Feb. 2; Serial Nos. 456,159–60; published Nov. 24, 1942. Class 38.

United Hosiery Mills Corporation, Chattanooga, Tenn. Foot covering to be worn inside the shoe without stockings. 399,905; Feb. 2; Serial No. 455,772; published Nov. 24, 1942. Class 39.

United States Gypsum Company, Chicago, Ill. Fibrous insulating board, picture mold, base screed, etc. 399,798; Feb. 2; Serial No. 447,921; published Oct. 20, 1942. Class 12.

United States Rubber Company, New York, N. Y. Porous rubber material useful as a filtering medium. 399,913; Feb. 2. Class 31.

United States Tube & Foundry Co., Inc., Brooklyn, N. Y. Truck casters. 399,856; Feb. 2; Serial No. 454,860; published Oct. 27, 1942. Class 19.

Valle, M., y Ca., Inc., assignor, by mesne assignments, to The American Tobacco Company, New York, N. Y. Cigars. 164,835; renewed Feb. 27, 1943.

Van Wolf, A. F., doing business as Kedmont Manufacturing & Waterproofing Co., Chicago, Ill. Material for patching industrial floors, trucking lanes, etc. 399,881; Feb. 2; Serial No. 455,317; published Nov. 10, 1942. Class 12.

Vickers Manufacturing Corporation, Buffalo, N. Y., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Hydraulic brake boosters and parts thereof. 399,868; Feb. 2; Serial No. 455,126; published Nov. 3, 1942. Class 19.

Wadley Company, Indianapolis and Terre Haute, to The Wadley Company, Indianapolis, Ind. Butter. 167,135; renewed Apr. 24, 1943.

Wagner, Wiltz W., doing business as Chas. P. Wagner & Bro., New Orleans, La. Butterscotch flavoring. 399,832; Feb. 2; Serial No. 453,561; published Nov. 24, 1942. Class 46.

Waitt & Bond, Inc., Newark, N. J. Cigars. 399,893; Feb. 2; Serial No. 455,548; published Nov. 24, 1942. Class 17.

Warne, William, and Company Limited, London, to William Warne & Co. Limited, Barking, England. Catheters, esophagus tubes, rectal tubes, etc. 168,228; renewed May 15, 1943.

Washington Iron Works, Seattle, Wash. Industrial machinery. 399,807; Feb. 2; Serial No. 450,324; published Nov. 24, 1942. Class 23.

Waterbury Brass Goods Corporation, The, assignor to The American Brass Company, Waterbury, Conn. Paper fasteners. 166,206; renewed Mar. 27, 1943.

Weber, C. B., Inc., Jersey City, N. J. Tobacco pipes. 399,894; Feb. 2; Serial No. 455,549; published Nov. 24, 1942. Class 8.

Wenatchee Northern Warehouse & Marketing Co., Wenatchee, Wash., assignor to Northern Cold Storage & Warehouse Company, Duluth, Minn. Fresh fruits. 168,685; renewed May 29, 1943.

Western Tablet & Stationery Corporation. (See Smith Tablet Company, Inc., The, assignor.)

Westfield Manufacturing Company, assignor to The Westfield Manufacturing Company, Westfield, Mass. Bicycles. 169,254; renewed June 12, 1943.

Westmoreland Coal Company, Philadelphia and Westmoreland County, Pa. Bituminous coal. 22,955; renewed May 2, 1943.

Whiting Corporation, Harvey, Ill. Cranes. 399,889; Feb. 2; Serial No. 455,507; published Nov. 24, 1942. Class 23.

Wichita Flour Mills Co., The, Wichita, Kans. Wheat flour. 165,148; renewed Mar. 6, 1943.

Wichita Flour Mills Co., The, Wichita, Kans. Wheat flour. 167,203; renewed Apr. 24, 1943.

Williams, J. B., Company, The, Glastonbury, Conn. Soaps. 399,826; Feb. 2; Serial No. 453,375; published Nov. 24, 1942. Class 4.

Willaimsburg Restoration, Inc., Williamsburg, Va. Tables, desks, cabinets, etc. 399,815; Feb. 2; Serial No. 451,635; published Nov. 24, 1942. Class 32.

Wilson Jones Company. (See Irving-Pitt Manufacturing Company, assignor.)

Winarick, Arthur, New York, N. Y. Face powders, face creams, perfumes, etc. 168,573; renewed May 29, 1943.

York Oil Burner Co., Inc., York, Pa. Fuel burners, boilers, air conditioning, etc. 399,838; Feb. 2; Serial No. 454,162; published Nov. 24, 1942. Class 34.

Zallea Brothers & Johnson, Wilmington, Del. Heat exchangers. 399,799; Feb. 2; Serial No. 488,125; published Nov. 10, 1942. Class 23.

Zanol Products Company, The. (See Mills Brothers Company, The, assignor.)

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal, Bituminous. Westmoreland Coal Company. 22,955; re-renewed May 2, 1943.

Hops. J. Sonnenschein Hop Co. 399,900; Feb. 2; Serial No. 455,677; published Nov. 24, 1942.

Leather. Ohio Leather Company. 169,049; renewed June 5, 1943.

Plastic material of a phenol-formaldehyde-urea type, Fabricated. Plastyle Veneers, Inc. 399,791; Feb. 2; Serial No. 443,513; published July 29, 1941.

Skins dressed and dyed, Fur. Herman Basch & Co. 167,946; renewed May 8, 1943.

CLASS 2

Bags and blanket bags, Garment. Fabric Products Manufacturing Company. 399,844; Feb. 2; Serial No. 454,445; published Nov. 24, 1942.

Bags, Paper. Union Bag & Paper Corporation. 165,849; renewed Mar. 20, 1943.

Tanks, Sheet-metal. A. A. Kramer. 165,074; renewed Mar. 6, 1943.

CLASS 3

Bill folds. Seco Leather Products Company. 399,860; Feb. 2; Serial No. 454,991; published Nov. 24, 1942.

Bill folds. Seco Leather Products Company. 399,861–2; Feb. 2; Serial Nos. 454,993–4; published Nov. 24, 1942.

CLASS 4

Abrasive papers and cloth. Herman Behr & Company. 168,942; renewed May 29, 1943.

Cleaner for floors, walls, and the like. A. Di Frances. 399,820; Feb. 2; Serial No. 452,417; published Nov. 24, 1942.

Leather dressing. R. C. Barbour. 399,836; Feb. 2; Serial No. 454,097; published Nov. 24, 1942.

Polishes acting as grease removers and cleaning materials, metal polish; solutions for surfacing, finishing, and renewing leather, leather substitutes, and fabrics. E. I. du Pont de Nemours and Company. 162,498; renewed Dec. 19, 1942.

Scouring utensils. Chore Utensils Corporation of America. 163,807; renewed Jan. 30, 1943.

Soap, Hand. W. J. Popp. 168,599; renewed May 29, 1943.

Soaps. J. B. Williams Company. 399,826; Feb. 2; Serial No. 453,375; published Nov. 24, 1942.

Soaps, Toilet. Muhlens & Kropff, Incorporated. 162,561; renewed Dec. 19, 1942.

CLASS 6

Chemicals such as bichromate of potash and bichromate of soda. Mutual Chemical Co. of America. 167,233; renewed Apr. 24, 1943.
Deodorants. Elmo, Inc. 168,410; renewed May 22, 1943.
Lye. Wm. Schield Mfg. Co. 168,245; renewed May 15, 1943.
Powders, face creams, perfumes, etc., Face. A. Winarick. 168,573; renewed May 29, 1943.

CLASS 8

Pipes, Tobacco. C. B. Weber Inc. 399,894; Feb. 2; Serial No. 455,549; published Nov. 24, 1942.

CLASS 12

Asphalt, asphalt compositions, asphalt emulsions. American Bitumuls Company. 399,804; Feb. 2; Serial No. 449,659; published Nov. 24, 1942.
Cement, Portland. Lone Star Cement Corporation. 399,789; Feb. 2; Serial No. 441,972; published Nov. 3, 1942.
Cement, Portland. Security Cement & Lime Co. 168,650; renewed May 29, 1943.
Construction materials. Cutler-Magner Co. 163,046; renewed Jan. 2, 1943.
Insulating board, picture mold, base screed, etc., Fibrous. United States Gypsum Company. 399,798; Feb. 2; Serial No. 447,921; published Oct. 20, 1942.
Insulating building materials, Heat. Celotex Corporation. 399,830; Feb. 2; Serial No. 453,431; published Oct. 20, 1942.
Insulation, Thermal. Johns-Mansville Corporation. 399,814; Feb. 2; Serial No. 451,568; published Nov. 10, 1942.
Ligno-cellulose sheets and boards. Coolerator Company. 399,818; Feb. 2; Serial No. 452,307; published Nov. 3, 1942.
Material for patching industrial floors, trucking lanes, etc. A. F. Van Wolf. 399,881; Feb. 2; Serial No. 455,317; published Nov. 10, 1942.
Plasticizer in the production of masonry cement and in the molding of cement blocks. National Oil Products Company. 399,800; Feb. 2; Serial No. 448,297; published Nov. 3, 1942.
Prefabricated structures. Texas Prefabricated House and Tent Co. 399,852; Feb. 2; Serial No. 454,705; published Oct. 27, 1942.
Rock wool. Holmes-Hemphill Company. 399,822; Feb. 2; Serial No. 452,532; published Nov. 10, 1942.
Rock wool. National Gypsum Company. 399,866; Feb. 2; Serial No. 455,122; published Oct. 27, 1942.
Roofing, building board, building paper, etc., Prepared. Heppes-Nelson Roofing Company. 163,088; renewed Jan. 2, 1943.
Shingles, Prepared. Ford Roofing Products Company. 399,833; Feb. 2; Serial No. 453,617; published Nov. 3, 1942.

CLASS 13

Aluminum art goods and gift wares. E. A. Palmer. 399,786; Feb. 2; Serial No. 404,089; published Jan. 28, 1941.
Cocks, stop and waste, and corporation. Red Hed Mfg. Co. 169,346–7; renewed June 12, 1943.
Coffee brewers, Glass. Hill-Shaw Company. 399,805; Feb. 2; Serial No. 449,736; published Mar. 3, 1942.
Fastening devices in the form of a combined screw and rivet. E. M. Green. 399,876; Feb. 2; Serial No. 455,181; published Oct. 27, 1942.
Hinges for boxes. H. D. Greenman. 399,884; Feb. 2; Serial No. 455,453; published Nov. 24, 1942.
Pipe flanges, Forged and rolled steel. Standard Steel Works Company. 165,484; renewed Mar. 13, 1943.
Racks for ties, belts, collar buttons, etc., Wall and door. Midwest Manufacturing & Engineering Corp. 399,823; Feb. 2; Serial No. 452,911; published Nov. 17, 1942.
Shower cabinets, Portable. American Shower Cabinet Co. 399,863; Feb. 2; Serial No. 455,013; published Oct. 27, 1942.
Steam traps. V. D. Anderson Company. 399,883; Feb. 2; Serial No. 455,387; published Nov. 24, 1942.
Stoppers, Basin, tub, sink, and tray. Columbus Plastic Products Inc. 399,873; Feb. 2; Serial No. 455,173; published Oct. 27, 1942.
Tray siphons, variable outlet drain controls, drain stopper and adjustable drainage control combinations, and hose connections having suction cups. Eastman Kodak Company. 399,847; Feb. 2; Serial No. 454,631; published Nov. 17, 1942.
Valves and pipe fittings. Crane Co. 399,837; Feb. 2; Serial No. 454,099; published Nov. 10, 1942.

CLASS 14

Gear blanks, iron castings, iron forgings, etc., Solid forged. Standard Steel Works Company. 164,829; renewed Feb. 27, 1943.
Metals, nonferrous alloys, and nonferrous sintered metal compositions, Nonferrous. P. R. Mallory & Co. Inc. 399,919; Feb. 2.

CLASS 16

Composition (in the nature of varnish). Simmonds Products Limited. 399,802; Feb. 2; Serial No. 448,769; published Nov. 24, 1942.

CLASS 17

Cigars. H. de Cabanas y Carbajal. 168,631; renewed May 29, 1943.
Cigars. General Cigar Co. 165,753; renewed Mar. 30, 1943.
Cigars. Havana Cigar and Tobacco Factories, Ltd. 164,369; renewed Feb. 20, 1943.
Cigars. M. Valle y Ca., Inc. 164,835; renewed Feb. 27, 1943.
Cigars. Waitt & Bond, Inc. 399,893; Feb. 2; Serial No. 455,548; published Nov. 24, 1942.
Tobacco and cigarettes. Liggett & Myers Tobacco Company. 168,082; renewed May 15, 1943.
Tobacco, Smoking. Ardath Tobacco Company. 167,174; renewed Apr. 24, 1943.

CLASS 19

Airplane seats. King Plastics Corporation. 399,848; Feb. 2; Serial No. 454,659; published Nov. 17, 1942.
Anchors, gasoline and oil filler caps, sheet blocks, etc., Sea. Durkee Marine Products Corporation. 399,890; Feb. 2; Serial No. 455,530; published Nov. 10, 1942
Automobile heaters. Hudson Motor Car Company 399,793; Feb. 2; Serial No. 445,096; published Oct. 27, 1942.
Bicycles. Arnold, Schwinn & Co. 399,888; Feb. 2; Serial No. 455,496; published Nov. 10, 1942.
Bicycles. Westfield Manufacturing Company. 169,254; renewed June 12, 1943.
Electrically non-conductive shop and mill truck wheels. Formica Insulation Company. 399,875; Feb. 2; Serial No. 455,180; published Oct. 20, 1942.
Hydraulic brake boosters and parts thereof. Vickers Manufacturing Corporation. 399,868; Feb. 2; Serial No. 455,126; published Nov. 3, 1942.
Truck casters. United States Tube & Foundry Co. 399,856; Feb. 2; Serial No. 454,860; published Oct. 27, 1942.
Vehicle wheels and truck caster wheels. American Brake Shoe and Foundry Company. 399,877; Feb. 2; Serial No. 455,197; published Nov. 3, 1942.

CLASS 21

Electric light bulbs, Incandescent. Elram Lamp Works. 399,892; Feb. 2; Serial No. 455,533; published Nov. 24, 1942.
Electrical insulation material. New Jersey Wood Finishing Company. 399,821; Feb. 2; Serial No. 452,455; published Nov. 24, 1942.
Tape and for splicing compound, Friction. C. R. Ahrens. 399,853; Feb. 2; Serial No. 454,773; published Nov. 24, 1942.

CLASS 22

Game, Table board. Haskelite Manufacturing Corporation. 399,903; Feb. 2; Serial No. 455,692; published Nov. 24, 1942.
Games. Milton Bradley Company. 399,810; Feb. 2; Serial No. 450,845; published Nov. 24, 1942.
Games of skill and amusement. C. H. Reed. 399,906; Feb. 2; Serial No. 455,828; published Nov. 24, 1942.
Masquerade outfits. Dessart Brothers, Inc. 169,185–7; renewed June 12, 1943.
Targets for pistols and rifles. Annie Oakley Company. 399,817; Feb. 2; Serial No. 452,273; published Nov. 24, 1942.

CLASS 23

Blocks, pulleys, sheaves, etc. Durkee Marine Products Corporation. 399,891; Feb. 2; Serial No. 455,532; published Nov. 24, 1942.
Counter-sinks, back spotfacers, rivet sinks, etc. Aircraft Tools, Inc. 399,918; Feb. 2.
Cranes. Whiting Corporation. 399,889; Feb. 2; Serial No. 455,507; published Nov. 24, 1942.
Diesel engines. Rogers Diesel and Aircraft Corporation. 399,896; Feb. 2; Serial No. 455,574; published Nov. 17, 1942.
Heat exchangers. Zallea Brothers & Johnson. 399,799; Feb. 2; Serial No. 448,125; published Nov. 10, 1942.
Knives and table carving sets, Table carving. W. R. Case and Son's Cutlery Company. 399,840; Feb. 2; Serial No. 454,356; published Nov. 17, 1942.
Knives and table carving sets, Table carving. W. R. Case and Son's Cutlery Company. 399,841–3; Feb. 2; Serial Nos. 454,358–60; published Nov. 17, 1942.
Machinery, Industrial. Washington Iron Works. 399,807; Feb. 2; Serial No. 450,324; published Nov. 24, 1942.
Machines for grinding, cracking or otherwise treating coffee and other materials. Jabez Burns & Sons, Inc. 399,839; Feb. 2; Serial No. 454,246; published Nov. 24, 1942.
Milling machines. Plan-O-Mill Corporation. 399,846; Feb. 2; Serial No. 454,541; published Nov. 17, 1942
Nozzles, suction proportioners, and pressure proportioners for the extinguishment of fires. National Foam System, Inc. 399,808; Feb. 2; Serial No. 450,514; published Nov. 24, 1942.
Piston expanders. A. C. Edwards. 399,795; Feb. 2; Serial No. 446,197; published Nov. 24, 1942.
Razors, Safety. Gillette Safety Razor Company. 399,921–7; Feb. 2.

Rings and rolled shells for crushers for reducing and pulverizing solid materials. Standard Steel Works Company. 166,037; renewed Mar. 27, 1943.
Rolling device for the application of paints and kindred products. Sherwin-Williams Company. 399,867; Feb. 2; Serial No. 455,125; published Nov. 10, 1942.
Shovels, cranes, pavement raising machines, etc. Koehring Company. 399,803; Feb. 2; Serial No. 449,646; published Nov. 10, 1942.
Tools and for machinery. Billings & Spencer Company. 399,829; Feb. 2; Serial No. 453,429; published Nov. 10, 1942.
Tools, dies, bushings, etc. Carboloy Company, Inc. 399,869; Feb. 2; Serial No .455,152; published Nov. 24, 1942.
Tractor grip lugs. Allied Steel Products, Inc. 399,898; Feb. 2; Serial No. 455,619; published Nov. 24, 1942.
Vacuum pumps and parts thereof, stills and parts thereof, installation apparatus for controlling the temperature of cooling fluid, etc. Distillation Products, Inc. 399,831; Feb. 2; Serial No. 453,435; published Nov. 17, 1942.

CLASS 24

Ironing tables, Foldable. Brewer-Titchener Corporation. 399,912; Feb. 2.

CLASS 26

Apparatus for measuring hearing. Sonotone Corporation 399,904; Feb. 2; Serial No. 455,713; published Nov. 24, 1942.
Frames and parts therefor, Eye-glass and spectacle. A. Kono. 399,899; Feb. 2; Serial No. 455,626; published Nov. 24, 1942.
Photographic printing machine reproducing by contact exposure without lenses, Portable. Luma Incorporated. 399,787; Feb. 2; Serial No. 434,535; published Nov. 3, 1942.
Spectacles and eye-glasses. Harry Stolper, Inc. 399,885; Feb. 2; Serial No. 455,461; published Nov. 24, 1942.

CLASS 27

Watches. Pierce Watch Company. 399,864; Feb. 2; Serial No. 455,030; published Nov. 24, 1942.

CLASS 28

Silverware and hollow silver-plated ware, Hollow. International Silver Company. 165,269; renewed Mar. 6, 1943.

CLASS 31

Porous rubber material useful as a filtering medium. United States Rubber Company. 399,913; Feb. 2.

CLASS 32

Mattresses. National Mattress Company. 399,908; Feb. 2; Serial No. 456,024; published Nov. 24, 1942.
Tables, desks, cabinets, etc. Williamsburg Restoration, Inc. 399,815; Feb. 2; Serial No. 451,635; published Nov. 24, 1942.

CLASS 33

Dishes, Glass. Newland, Schneeloch & Pick, Inc. 399,850; Feb. 2; Serial No. 454,666; published Nov. 24, 1942.
Glasses, Drinking. B. Osborne. 399,816; Feb. 2; Serial No. 451,752; published Oct. 27, 1942.
Rods, glass tubing, and glass containers, Glass. Kimble Glass Company. 399,812; Feb. 2; Serial No. 451,442; published Oct. 20, 1942.
Rods, glass tubing, and glass containers, Glass. Kimble Glass Company. 399,813; Feb. 2; Serial No. 451,445; published Oct. 20, 1942.

CLASS 34

Articles, Smokers'. M. E. Bernhardt. 169,199; renewed June 12, 1943.
Equipment for ventilating systems. H. W. Fiedler. 399,882; Feb. 2; Serial No. 455,369; published Nov. 10, 1942.
Fuel burners, boilers, air conditioning units, etc. York Oil Burner Co. 399,838; Feb. 2; Serial No. 454,162; published Nov. 24, 1942.
Furnace. Sawyer-Hare Furnace Company. 399,835; Feb. 2; Serial No. 454,017; published Oct. 27, 1942.
Heating equipment and parts of such equipment Favorite Stove Company. 399,857; Feb. 2; Serial No. 454,886; published Nov. 17, 1942.
Machines used in industrial establishments. Mayer Manufacturing Corporation. 399,849; Feb. 2; Serial No. 454,662; published Nov. 10, 1942.
Ranges, Coal and wood. Sears, Roebuck and Co. 399,851; Feb. 2; Serial No. 454,700; published Nov. 17, 1942.
Stokers, Automatic. Sun-Fire Stoker Corporation. 399,824; Feb. 2; Serial No. 453,188; published Nov. 17, 1942.
Stokers, incinerators, blowers, etc. Schwab Furnace Company. 399,880; Feb. 2; Serial No. 455,313; published Nov. 24, 1942.
Stoves, ranges, and ovens. F. S. Lang Manufacturing Company. 399,827–8; Feb. 2; Serial Nos. 453,386–7; published Nov. 17, 1942.

CLASS 35

Belts, Leather. Texas Belting Company. 169,317; renewed June 12, 1943.

CLASS 36

Needle, Phonograph. P. Grey. 399,797; Feb. 2; Serial No. 447,330; published Nov. 24, 1942.
Needles, Phonograph. Duotone Company. 399,915; Feb. 2.

CLASS 37

Binders, Loose-leaf. Irving-Pitt Manufacturing Company. 163,473; renewed Jan. 16, 1943.
Cleansing tissue, paper towels, toilet paper, etc., Bathroom. Crown Zellerbach Corporation. 399,887; Feb. 2; Serial No. 455,475; published Nov. 24, 1942.
Paper and gummed cloth in sheets and strips, Gummed. Ideal Coated Paper Company. 168,672; renewed May 29, 1943.
Paper and stationery. Smith Tablet Company. 169,365; renewed June 12, 1943.
Paper fasteners. Waterbury Brass Goods Corporation. 166,206; renewed Mar. 27, 1943.
Papers, Coated book. McLaurin-Jones Co. 168,699; renewed May 29, 1943.
Pencils, Lead. American Lead Pencil Company. 22,273; re-renewed Dec. 27, 1942.
Pens, Fountain. Salz Bros. Inc. 169,334; renewed June 12, 1943.
Towels, Paper. A. P. W. Paper Company. 399,886; Feb. 2; Serial No. 455,466; published Nov. 24, 1942.

CLASS 38

Books, Series of. McLoughlin Bros., Inc. 399,855; Feb. 2; Serial No. 454,854; published Nov. 24, 1942.
Bulletins, menu cards, recipes, etc., Home economics. National Association of Food Chains. 399,834; Feb. 2; Serial No. 453,990; published Nov. 17, 1942.
Column, Feature. B. de Gaw. 399,796; Feb. 2; Serial No. 446,692; published Nov. 24, 1942.
Comic drawings published in a series. United Feature Syndicate, Inc. 399,910–11; Feb. 2; Serial Nos. 456,159–60; published Nov. 24, 1942.
Comic strip or section of a periodical publication. Fawcett Publications, Inc. 399,792; Feb. 2; Serial No. 444,825; published Nov. 17, 1942.
Magazine. Detective Comics, Inc. 399,870; Feb. 2; Serial No. 455,153; published Nov. 17, 1942.
Magazine. M. C. Gaines. 399,914; Feb. 2.
Orchestration sets, Printed. Select-A-Key Company. 399,879; Feb. 2; Serial No. 455,211; published Nov. 24, 1942.
Periodical. D. Ashby. 399,865; Feb. 2; Serial No. 455,063; published Nov. 17, 1942.
Publication. Botany Worsted Mills. 399,858; Feb. 2; Serial No. 454,904; published Nov. 17, 1942.
Section of a periodical publication. Aeronautical Digest Publishing Corporation. 399,809; Feb. 2; Serial No. 450,559; published Nov. 10, 1942.

CLASS 39

Belts for supporting outer garments. Marathon Tire & Rubber Company. 166,606; renewed Apr. 10, 1943.
Blouse and slacks, Misses' and girls' combined. Teen Frocks, Inc. 399,819; Feb. 2; Serial No. 452,365; published June 16, 1942.
Cloaks, wraps, and suits for ladies' outer wear. Mabley and Carew Company. 168,183; renewed May 15, 1943.
Clothing, Women's. Messing Knitwear. 399,916; Feb. 2.
Clothing, Women's and men's. H. C. Meyers. 399,811; Feb. 2; Serial No. 450,879; published June 9, 1942.
Coats for women, misses, and children. New York Girl Coat Co. 399,895; Feb. 2; Serial No. 455,572; published Nov. 17, 1942.
Coats, vests, trousers, etc., Men's. Goodman & Suss Clothes Corporation. 399,788; Feb. 2; Serial No. 440,589; published May 5, 1942.
Covering to be worn inside the shoe without stockings, Foot. United Hosiery Mills Corporation. 399,905; Feb. 2; Serial No. 455,772; published Nov. 24, 1942.
Dresses, Women's and girls'. Associated Lerner Shops of America, Inc. 399,878; Feb. 2; Serial No. 455,199; published Nov. 17, 1942.
Dresses, Women's and misses'. Constantine Dress Company. 399,874; Feb. 2; Serial No. 455,176; published Nov. 17, 1942.
Hosiery. Burlington Mills Corporation. 399,872; Feb. 2; Serial No. 455,170; published Nov. 24, 1942.
Hosiery. Powell Knitting Company. 166,690; renewed Apr. 10, 1943.
Hosiery, scarfs, neckties, and mufflers. Nickels & Lauber, Inc. 168,186; renewed May 15, 1943.
Hosiery, underwear; and sweaters. Mandel & Cohen. 164,807; renewed Feb. 27, 1943.
Pants, Work. Sears, Roebuck and Co. 164,747; renewed Feb. 27, 1943.
Raincoats and topcoats. C. B. Shane Co. 164,777; renewed Feb. 27, 1943.
Shirts, collars, pyjamas, etc. Phillips-Jones Corporation. 169,173; renewed June 12, 1943.
Shirts, Men's and boys'. Pepperell Manufacturing Company. 399,845; Feb. 2; Serial No. 454,461; published Nov. 24, 1942.
Sweaters and coats, Women's and girls'. Renart Sportswear Corp. 399,871; Feb. 2; Serial No. 455,166; published Nov. 17, 1942.

Sweaters, Women's. Supreme Knitwear Co. 399,902; Feb. 2; Serial No. 455,684; published Nov. 24, 1942.
Trousers. William F. Fretz & Son. 399,794; Feb. 2; Serial No. 445,845; published Apr. 7, 1942.
Trousers, Men's and boys'. H. Siegfried & Sons, Inc. 399,897; Feb. 2; Serial No. 455,602; published Nov. 17, 1942.
Underwear, and hosiery. Munsingwear Corporation. 169,038; renewed June 5, 1943.

CLASS 40

Trimmings, Woven and braided. Narrow Fabric Co. 162,839; renewed Dec. 26, 1942.

CLASS 42

Bedquilts, bedspreads, and counterpanes. Ely & Walker Dry Goods Company. 165,690; renewed Mar. 20, 1943.
Textile fabric piece goods. Dexter Woolen Corporation. 399,917; Feb. 2.

CLASS 44

Catheters, esophagus tubes, rectal tubes, etc. William Warne and Company Limited. 168,228; renewed May 15, 1943.
Dental appliances. H. Friedman. 162,754; renewed Dec. 26, 1942.

CLASS 46

Apricots, canned green beans, canned corn on the cob, etc., Dried. Plee-Zing, Inc. 399,825; Feb. 2; Serial No. 453,216; published Nov. 24, 1942.
Butter. Wadley Company. 167,135; renewed Apr. 24, 1943.
Candy and candy filler. Sun Maid Raisin Growers. 167,816; renewed May 8, 1943.
Canned fruits. Olympia Canning Company. 168,374; renewed May 22, 1943.
Canned fruits. Olympia Canning Company. 168,615; renewed May 29, 1943.
Extract of meat, tongues, meat meal, a food for cattle, and preserved meat. Oxo, Limited. 166,084; renewed Mar. 27, 1943.
Flavoring, Butterscotch. W. W. Wagner. 399,832; Feb. 2; Serial No. 453,561; published Nov. 24, 1942.
Flour and breakfast cereal, Wheat. Fisher Flouring Mills Company. 399,790; Feb. 2; Serial No. 443,121; published Nov. 24, 1942.
Flour, Wheat. Wichita Flour Mills Co. 165,148; renewed Mar. 6, 1943.
Flour, Wheat. Wichita Flour Mills Co. 167,203; renewed Apr. 24, 1943.
Food products. Fine Foods, Inc. 399,854; Feb. 2; Serial No. 454,801; published Nov. 24, 1942.
Fruits, Citrus. North Whittier Heights Citrus Ass'n. 164,735; renewed Feb. 27, 1943.
Fruits, Fresh. Wenatchee Northern Warehouse & Marketing Co. 168,685; renewed May 29, 1943.
Fruits, Fresh citrus. Florida Citrus Exchange. 169,047; renewed June 5, 1943.
Fruits, Fresh citrus. North Whittier Heights Citrus Ass'n. 165,986; renewed Mar. 27, 1943.
Fruits, Sweet-pickled. G. B. Raffetto, Inc. 164,170; renewed Feb. 13, 1943.
Marrons and assorted fruits. R. B. Rafferto, Inc. 165,977; renewed Mar. 27, 1943.
Molasses. Penick & Ford, Ltd. 169,344; renewed June 12, 1943.
Oats, Rolled. Quaker Oats Company. 399,859; Feb. 2; Serial No. 454,949; published Nov. 24, 1942.
Poultry and eggs, Dressed. Seymour Packing Company. 167,137–8; renewed Apr. 24, 1943.
Poultry, Dressed. Seymour Packing Company. 167,139; renewed Apr. 24, 1943.
Poultry, Dressed. Seymour Packing Company. 167,223; renewed Apr. 24, 1943.
Prune juice. W. F. Straub & Company. 399,920; Feb. 2.
Salad-dressing powder and cake-icing powder. Mills Brothers Company. 169,213; renewed June 12, 1943.
Salt packed in bulk and primarily used as or an ingredient for animal feeds. Michigan Chemical Corporation. 399,801; Feb. 2; Serial No. 448,367; published Nov. 24, 1942.
Soup mix. St. Louis Macaroni Mfg. Co. 399,901; Feb. 2; Serial No. 455,682; published Nov. 24, 1942.
Syrup. Alabama-Georgia Syrup Company. 399,907; Feb. 2; Serial No. 455,943; published Nov. 24, 1942.
Vegetables, Fresh. L. Terven. 399,909; Feb. 2; Serial No. 456,158; published Nov. 24, 1942.

CLASS 50

Acid and alkali proof cotton textile fabrics. William W. Stanley Co. 399,806; Feb. 2; Serial No. 450,080; published Nov. 24, 1942.
Swatters, Fly. Lubbers & Bell Mfg. Co. 163,113; renewed Jan. 2, 1943.

LIST OF REISSUE PATENTEES

PATENTS WERE ISSUED ON THE 2D DAY OF FEBRUARY, 1943

TO WHOM

NOTE.--Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

American Enka Corporation. (See Koch, Theodoor, and van der Kroon, assignors.)

Banker, Oscar H., assignor to New Products Corporation, Chicago, Ill. Automatic transmission. Re. 22,259; Feb. 2.

Edgerton, Harold E., Belmont, Mass. Switching system for light-flash-producers, such as stroboscopes. Re. 22,260; Feb. 2.

Kalischer, Milton, Longmeadow, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Air conditioning apparatus. Re. 22,261; Feb. 2.

Koch, Theodoor, Oosterbeek, and H. A. van der Kroon, Arnhem, Netherlands, assignors to American Enka Corporation, Enka, N. C. Treatment of casein fibers. Re. 22,262; Feb. 2.

New Products Corporation. (See Banker, Oscar H., assignor.)

Van der Kroon, Henricus A. (See Koch, T., and van der Kroon.)

Westinghouse Electric & Manufacturing Company. (See Kalischer, Milton, assignor.)

LIST OF DESIGN PATENTEES

Allen, Paul E., Skokie, Ill. Bottle holder. 134,949; Feb. 2.

American Radiator & Standard Sanitary Corporation. (See Trout, Harry R., assignor.)

Ampro Corporation. (See Shapiro, Abraham, assignor.)

Anderson Bros. & Johnson Co. (See Johnson, Albert H., assignor.)

Ashley, Anna M., administratrix. (See Ashley, Frank M.)

Ashley, Frank M., Great Kills, N. Y.; A. M. Ashley, administratrix of F. M. Ashley, deceased. Fountain pen. 134,950; Feb. 2.

Behrman, Harry P., St. Albans, N. Y. Wallet. 134,937; Feb. 2.

Brinker, John H., Covington, Ky., assignor to The Globe-Wernicke Company, Norwood, Ohio. Clip board. 134,966; Feb. 2.

Burn, Walter P., and H. L. Jurkops, Washington, D. C., assignors to the United States of America, as represented by the United States Director of Civilian Defense Office of Civilian Defense. Applique emblem or similar article. 134,923; Feb. 2.

Charles, Camille, New York, N. Y. Dress. 134,938; Feb. 2.

Churchill, Charles H., Cortland, N. Y. Garden hose holder. 134,939; Feb. 2.

Clausing, Henry, assignor to Vulcan Corporation, Portsmouth, Ohio. Combined shoe sole and heel. 134,932; Feb. 2.

Cohen, Harry, Chicago, Ill. Combined match-clusters and holder. 134,933; Feb. 2.

Comet Model Airplane & Supply Co. (See Konefes, Joseph H., assignor.)

Dryden, Charles J., assignor to W. T. Turner, doing business as Eagle Emblem Co., Springfield, Mass. Automobile emblem plate or similar article. 134,967; Feb. 2.

Eagle Emblem Co. (See Dryden, Charles J.)

Elkonin, Aaron, Brooklyn, N. Y. Finger ring or similar article. 134,924; Feb. 2.

Enghauser, Winford L., Cincinnati, assignor to The Production Plating Works, Inc., Lebanon, Ohio. Name plate. 134,925; Feb. 2.

Enghauser, Winford L., Cincinnati, assignor to The Production Plating Works, Inc., Lebanon, Ohio. Mailbox support. 134,951; Feb. 2.

Etkin, Simon, New York, N. Y. Suit. 134,971; Feb. 2.

Feerst, Abraham, New York, N. Y. Lace. 134,952; Feb. 2.

Globe-Wernicke Company, The. (See Brinker, John H., assignor.)

Goldfield, Edward, New York, N. Y. Suit. 134,940; Feb. 2.

Grabowski, Frank. (See Harrison, R. W., and Grabowski.)

Green, Warren B., New York, assignor to U-Need-A-Pak Products Corp., Brooklyn, N. Y. Vending machine contents display panel. 134,926; Feb. 2.

Greenberg, Albert, New York, N. Y. Aquarium ornament. 134,953; Feb. 2.

Greenberg, Albert, New York, N. Y. Aquarium ornament. 134,954; Feb. 2.

Greenberg, Albert, New York, N. Y. Aquarium ornament. 134,955; Feb. 2.

Greenberg, Fred, New York, N. Y. Dress. 134,972; Feb. 2.

Hansen, William, Chicago, Ill. Shopper's cart. 134,941; Feb. 2.

Harpignies, Zinaida, Kew Gardens, N. Y. Hat. 134,968; Feb. 2.

Harris, John R., Broadview, assignor to Sears, Roebuck and Co., Chicago, Ill. Kitchen cabinet. 134,934; Feb. 2.

Harrison, Richard W., and F. Grabowski, Charlestown, Mass. Combined shaving cup and razor blade hone. 134,956; Feb. 2.

Hat Corporation of America. (See Maxwell, P. M., and Russy, assignors.)

Heemann, Arthur E., Bell, assignor of one-half to C. R. Kellogg, Los Angeles, Calif. Liquid dispenser. 134,935; Feb. 2.

Huff, Basil D., New York, N. Y. Buckle. 134,936; Feb. 2.

Jeannette Glass Company, The. (See Sloan, Carl T., assignor.)

Johnson, Albert H., assignor to Anderson Bros. & Johnson Co., Wausau, Wis. Monument. 134,927; Feb. 2.

Johnson, Albert H., assignor to Anderson Bros. & Johnson Co., Wausau, Wis. Monument. 134,928; Feb. 2.

Jurkops, Helen L. (See Burn, W. P., and Jurkops.)

Kalina, Leon, New York, N. Y. Pin or similar article. 134,957; Feb. 2.

Katz, Willy, Woodside, N. Y. Combined picture frame and easel support. 134,958; Feb. 2.

Kellogg, Caroline R. (See Heemann, Arthur E., assignor.)

Knudsen, William S., U. S. Army, Washington, D. C., assignor to the United States of America, as represented by the Secretary of War. Lapel emblem button or the like. 134,959; Feb. 2.

Konefes, Joseph H., Chicago, Ill., assignor to Comet Model Airplane & Supply Co., Inc. Airplane control instruction device or similar article. 134,942; Feb. 2.

Maxwell, Paul M., Manhasset, N. Y., and W. J. Russy, Jersey City, N. J., assignors to Hat Corporation of America, Norwalk, Conn. Hat. 134,964; Feb. 2.

Mitchell, Merlin, Orlando, Fla. Bumper bar or the like. 134,943; Feb. 2.

Mortimer, Albert, Superior, Wis. Vehicle body. 134,944; Feb. 2.

Moye, Barbara, New York, N. Y. Dress. 134,960; Feb. 2.

Moye, Barbara, New York, N. Y. Jacket. 134,973; Feb. 2.

Oeschger, Max P., Red Bank, N. J., assignor to Oscar Embroidery Co., New York, N. Y. Embroidered lace 134,929; Feb. 2.

Ording, Dagbert and L. S. Vallely, assignors to Valco, Inc., Houston, Tex. Supporting tower for tanks or the like. 134,961; Feb. 2.

Oscar Embroidery Co. (See Oeschger, Max P., assignor.)

Production Plating Works, Inc., The. (See Enghauser, Winford L., assignor.)

Rosenbaum, Norman M., New York, N. Y. Embroidered trimming or similar article. 134,969; Feb. 2.

Rosenberg, Albert E., New York, N. Y. Knife rack. 134,930; Feb. 2.

Rosenberg, Harriet, New York, N. Y. Dress. 134,945; Feb. 2.

Rowland, Robert W., Newark, N. J. Casement for portholes or the like. 134,946; Feb. 2.

Russy, Wilhelmina J. (See Maxwell, P. M., and Russy.)

Sears, Roebuck and Co. (See Harris, John R., assignor.)

Seligman, Dorothy, New York, N. Y. Jacket. 134,974; Feb. 2.

Shapiro, Abraham, assignor to Ampro Corporation, Chicago, Ill. Combination motion picture screen and carrying case. 134,965; Feb. 2.

Sloan, Carl T., assignor to The Jeannette Glass Company, Jeanette, Pa. Glass plate or the like. 134,962; Feb. 2.

Stambaugh, Reginald V., Cleveland, Ohio. Food tray. 134,947; Feb. 2.

Trout, Harry R., Pittsburgh, Pa., assignor to American Radiator & Standard Sanitary Corporation, New York, N. Y. Heater casing or the like. 134 948; Feb. 2.

Turner, William T. (See Dryden, Charles J., assignor.)

U-Need-A-Pak Products Corp. (See Green, Warren B., assignor.)

United States of America, as represented by the Secretary of War. (See Knudsen, William S., assignor.)

United States of America, as represented by the United States Director of Civilian Defense, Office of Civilian Defense. (See Burn, W. P., and Jurkops, assignors.)

Vallely, Leslie S. (See Ording, D. and Vallely.)

Valvo, Inc. (See Ording, D., and Vallely, assignors.)

Vulcan Corporation. (See Clausing, Henry, assignor.)

Wolfe, Raymond M., Louisville, Ky. Combined shawl and head covering. 134,970; Feb. 2.

Yarborough, William P., Fort Bragg, N. C. Parachutist's badge. 134,963; Feb. 2.

Yuill, James S., Prince Albert, Saskatchewan, Canada. Roller skate. 134,931; Feb. 2.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF FEBRUARY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrams, Maurice, assignor of one-half to V. Schectman-Abrams, Newark, N. J. Brush. 2,310,186; Feb. 2.
Accola, Alfred. (See Gearhart, Glenn D., assignor.)
Aero Survey Corporation. (See Cooke, Hereward L., assignor.)
Aero Survey Corporation. (See Cooke, H. L., and Harnwell, assignors.)
Aetna Standard Engineering Company, The. (See Matteson, Elwin A., assignor.)
Aga-Baltic Radio Aktiebolag. (See Hermansson, Adolf H., assignor.)
Agnew, George D., Kingston, Ontario, Canada. Welding apparatus. 2,310,015; Feb. 2.
Ahlskog, Ernst, Chicago, Ill. Vibratory machine. 2,309,689; Feb. 2.
Aiken, Andrew J., Cleveland, Ohio. Apparatus for producing seamless tubes. 2,309,690; Feb. 2.
Air Reduction Company. (See Deming, George M., assignor.)
Air Reduction Company. (See Heidbrink, Jay A., assignor.)
Albersheim, Walter J., Great Neck, N. Y., assignor to Western Electric Company, Incorporated. Vibration translating system. 2,310,048; Feb. 2.
Albersheim, Walter J., Great Neck, N. Y., assignor to Western Electric Company, Incorporated. Sound record and reproducing system. 2,310,049; Feb. 2.
Alien Property Custodian. (See Czellitzer, Robert.)
Alien Property Custodian. (See Elze, Wilhelm.)
Alien Property Custodian. (See Goissedet, P. E. C., and Despois.)
Alien Property Custodian. (See Herrmann, W. O., Haehnel and Deutsch.)
Alien Property Custodian. (See Horn, Josef.)
Alien Property Custodian. (See Kroll, William.)
Alien Property Custodian. (See Motte, J., and Pomot.)
Alien Property Custodian. (See Röber, C. F., and Böttger.)
Alien Property Custodian. (See Salomon, Arnold.)
Allatt, Mervin, Plainfield, N. J., assignor to Millie Patent Holding Co., Inc. Packaging apparatus and method. 2,309,621; Feb. 2.
Allen, Gifford, Grand Junction, Colo. Folding pocket hack saw. 2,309,816; Feb. 2.
Allyn, Robert S., et al. (See Harvey, James W., assignor.)
Amalgamated Wireless (Australasia) Limited. (See Green, Alfred L., assignor.)
American Air Filter Company. (See Fitch, H. M., and Gregory, assignors.)
American Box Board Company. (See Van Wingen, Neil P., assignor.)
American Brake Shoe and Foundry Company, The. (See Ratkowski, Thomas A., assignor.)
American Brass Company, The. (See Vaill, John L., assignor.)
American Cyanamid Company. (See Bradley, Margaret H., assignor.)
American Cyanamid Company. (See Mackenzie, Neil M., assignor.)
American Cyanamid Company. (See Nagy, Daniel E., assignor.)
American Cyanamid Company. (See Oldham, Wilbur N., assignor.)
American Cyanamid Company. (See Roblin, R. O., Jr., and English, assignors.)
American Cyanamid Company. (See Thurston, Jack T., assignor.)
American Cyanamid Company. (See Thurston, J. T., and Bradley, assignors.)
American Cyanamid Company. (See Thurston, J. T., and Kaiser, assignors.)
American Cyanamid Company. (See Thurston, J. T., and Swain, assignors.)
American District Telegraph Company. (See Muehter, Manfred W., assignor.)
American Locomotive Company. (See Blunt, James G., assignor.)
American Machine & Foundry Company. (See Peterson, Pontus, assignor.)
American Maize-Products Company. (See Schopmeyer, H. H., and Sharps, assignors.)
American Molded Products Co. (See Moxey, Fred W., assignor.)
American Sandpaper Company. (See Fenton, John P., assignor.)
American Steel and Wire Company of New Jersey, The. (See Bergin, Thomas G., assignor.)
American Thread Company, The. (See Gardner, Dwight R., assignor.)
American Tobacco Company, The. (See Moseley, J. M., and Hudson, assignors.)
Anderson, Eric W. (See Doering, Charles and H. H., and Skoglund and Anderson.)
Anderson-Stolz Corporation. (See Loetel, Charles E., assignor.)
Anderson, Warren A., New Dorp, Staten Island, N. Y., assignor to Radio Corporation of America. Phase corrector for telegraph systems. 2,309,622; Feb. 2.
Anglo California National Bank of San Francisco, The, trustee. (See Hansgirg, Fritz, assignor.)
Anglo California National Bank of San Francisco, The, trustee. (See Hansgirg, Fritz J., assignor.)
Anholtt, Anders P. (See Giern, J. B., and Anholtt.)
Apfel, Joseph S., New York, N. Y. Black-out shade. 2,310,014; Feb. 2.
Araneta, Ignacio. (See Gräwer, Engelbert, assignor.)
Argyle, Christopher S. (See Olpin, H. C., Argyle, and Brown.)
Armington, Raymond Q., Shaker Heights, assignor to The Euclid Road Machinery Company, Euclid, Ohio. Conveyer loader. 2,309,623; Feb. 2.
Arnold, Ross H. (See Jauch, R. J., and Arnold.)
Athy, Lawrence F., Ponca City, Okla., and E. V. McCollum, Houston, Tex., assignors to Continental Oil Company, Ponca City, Okla. Making geophysical explorations. 2,309,817; Feb. 2.
Atlantic Refining Company, The. (See Leum, L. N., and Birkhimer, assignors.)
Atlantic Refining Company, The. (See McCullough, J. H., Birkhimer, and Leum, assignors.)
Atlas Powder Company. (See Pratt, Carl D., assignor.)
Attaway, Vester N., Jackson, Tenn. Gauge. 2,309,818; Feb. 2.
Austin, Bascum O., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Motor control system. 2,310,050; Feb. 2.
Austin, Harlod R., South Norwalk, Conn., assignor to The M. W. Kellogg Company, New York, N. Y. Flanging tubular bodies. 2,310,158; Feb. 2.
Automatic Devices Corporation. (See Kline, James T., assignor.)
Automotive Products Company Limited. (See Eves, Frederick S., assignor.)
Avery Equipment Limited. (See Fisher, Reginald J., assignor.)
Axelrad, Bernard A., Freeport, Tex., and S. T. Powell, Baltimore, Md., assignors to Freeport Sulphur Company, New York, N. Y. Process and apparatus for treating liquids with sulphur combustion gases. 2,310,187; Feb. 2.
Baer, Harry L., Dormont, Pa. Fluid feeding device. 2,310,051; Feb. 2.
Bakelite Corporation. (See Brannon, James L., assignor.)
Baker, Chester L., Penn Wynne, and C. H. Dedrick, Drexel Hill, assignors to Philadelphia Quartz Company, Philadelphia, Pa. Water purification. 2,310,009; Feb. 2.
Baker, Louis M., Birmingham, Mich., assignor to J. Falcon, Buenos Aires, Argentina. Control switch for convertible tops. 2,309,926; Feb. 2.
Ballard, Charles H., A. N. Banter, and S. E. Hays, assignors to Lindley Box & Paper Company, Marion, Ind. Display and shipping container for cut flowers, etc. 2,309,742; Feb. 2.
Banter, Arthur N. (See Ballard, C. H., Banter, and Hays.)
Barnes, Carl E., Worcester, Mass., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Furyl vinyl ketone and its alpha alkyl substituted vinyl analogues. 2,309,727; Feb. 2.
Barnett, Rex D. (See Herring, W. A., and Barnett.)
Bartholy, Frederick E., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Radio direction finding system. 2,310,052; Feb. 2.
Bassette, Arthur S. (See Frank, W. H., and Bassette.)
Bastian, Arthur J., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Bearing assembly. 2,310,053; Feb. 2.
Baudino, Joseph E., Merion, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh Pa. Protection for bias filter condensers. 2,310,054; Feb. 2.
Baughman, George W., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Decoding apparatus and method. 2,309,743; Feb. 2.
Bausman, Alonzo L., Springfield, Mass., assignor, by mesne asignments, to J., H., S., and S. Greenberg, a co-partnership doing business as National Equipment Company, New York, N. Y. Conveyer. 2,310,055; Feb. 2.

Beaman, Townsend F., trustee. (See Snell, Samuel A., assignor.)
Bedford, Alda V., Collingswood, N. J., assignor to Radio Corporation of America. Television system. 2,309,744; Feb. 2.
Beede, Walter E., Penacook, N. H. Meter. 2,309,927; Feb. 2.
Bell Aircraft Corporation. (See Trotter, John C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Garvin, John S., assignor.)
Bell Telephone Laboratories, Incorporated. (See Harrison, Henry C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Lovell, C. A., and Mallina, assignors.)
Bell Telephone Laboratories, Incorporated. (See Miller, Albert H., assignor.)
Bell Telephone Laboratories, Incorporated. (See Miller, Ralph L., assignor.)
Bendix Aviation Corporation. (See Daalder, Richard, assignor.)
Bendix Aviation Corporation. (See Douglas, Kenneth F., assignor.)
Bendix Home Appliances, Inc. (See Porter, Howard C., assignor.)
Bendix Home Appliances, Inc. (See Porter, H. C., and Schulz, assignors.)
Bendz, Waldemar I., Arlington, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Magnetic contactor. 2,310,056; Feb. 2.
Benner, Raymond C., assignor to The Carborundum Company, Niagara Falls, N. Y. Grinding and polishing glass and apparatus therefor. 2,309,819; Feb. 2.
Bennett, Thomas A., assignor to United States Rubber Company, New York, N. Y. Conveyer belt. 2,309,928; Feb. 2.
Berg, Hans S., Ventura, Calif. Bearing packer. 2,309,820; Feb. 2.
Bergin, Thomas G., New Haven, Conn., assignor to The American Steel and Wire Company of New Jersey. Processing wire. 2,309,745; Feb. 2.
Bergmann, Richard F., Lakewood, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Method of and apparatus for manufacturing thread or the like. 2,309,821; Feb. 2.
Bescherer, Palmer, assignor to York Safe and Lock Company, York, Pa. Drawer pull and label holder. 2,309,882; Feb. 2.
Best Food, Inc., The. (See Gooding, Chester M., assignor.)
Birkhimer, Edwin R. (See Leum, L. N., and Birkhimer.)
Birkhimer, Edwin R. (See McCullough, J. H., Birkhimer, and Leum.)
Blake Manufacturing Corporation. (See Wood, Orville T., assignor.)
Blau, Harry, New York, N. Y. Undergarment. 2,309,822; Feb 2.
Blazek, John Y., Bedford, G. E. Sears and V. R. Roy assignors to Lempco Products, Inc., Cleveland, Ohio. Grinding jig. 2,309,620; Feb. 2.
Bliss, E. W., Company. (See Krueger, Frank, assignor.)
Blunt, James G., Schenectady, assignor to American Locomotive Company, New York, N. Y. Locomotive crosshead guide. 2,310,159; Feb. 2.
Bobbe, Henry J. (See Schloff, Meyer E., assignor.)
Bock, Ashley P. (See Booth, J. D., and Bock.)
Boerma, Henry E., assignor to Pneu-Hydro Road Machinery Co., Cadillac, Mich. Road planer. 2,310,057; Feb. 2.
Boisseau, Alexander C. (See Thumim, C. F., and Boisseau.)
Bolten, John, Andover, Mass., and H. Spitz, Great Neck, N. Y. Garment hanger. 2,310,058; Feb. 2.
Bond, Clark W., Littleton, Colo. Stationery padding device. 2,310,059; Feb. 2.
Bone, Herbert L., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway track switch connecting mechanisms. 2,309,746; Feb. 2.
Booth, James D., and A. P. Bock, Catonsville, Md., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Two-wire radio transmission. 2,310,060; Feb. 2.
Borg-Warner Corporation. (See Carnagua, H. E., and Osborne, assignors.)
Bossart, Paul N., Cheswick, assignor to The Union Switch & Signal Company, Swissvale, Pa. Transmitting apparatus for railway train communicating systems. 2,309,747; Feb. 2.
Boston Wire Stitcher Company. (See Goodstein, Charles B., assignor.)
Boston Wire Stitcher Company. (See Maynard, Arthur H., assignor.)
Böttger, Alfred. (See Röber, C. F., and Böttger.)
Bowen, Orville R., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Porous metal. 2,310,061; Feb. 2.
Bowman, Arthur M., assignor to J. I. Bowman, Pittsburgh, Pa. Fabricated steel beam. 2,309,823; Feb. 2.
Bowman, James I. (See Bowman, Arthur M., assignor.)
Brackensey, Auguste H., assignor of one-half to The Franco-British Electrical Company Limited, London, England. Controlling electric discharge tubes. 2,309,883; Feb. 2.
Bradley, Margaret H. (See Thurston, J. T., and Bradley.)
Bradley, Margaret H., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Betaalkoxybutylroguanamines. 2,309,624; Feb. 2.
Braloff, Henry, Rockville Centre, N. Y. Building construction. 2,309,748; Feb. 2.
Brannon, James L., Plainfield, N. J., assignor to Bakelite Corporation. Preparation of quaternary onium compounds. 2,309,691; Feb. 2.
Breitenstein, Charles T. (See Hooker, D. E., Breitenstein, and Nelson.)
Bresnick, Harry, New York, N. Y. Processing of foods. 2,309,884; Feb. 2.
Broncato, Joseph, Rye, N. Y. Scaffold structure. 2,310,062; Feb. 2.
Bronson, Frederick L., New York, N. Y., assignor to The Fibre Can and Machinery Company, New Haven, Conn. Apparatus for applying caps to containers. 2,309,929; Feb. 2.
Brotherton, Clifford A., Columbus, assignor to The Timken Roller Bearing Company, Canton, Ohio. Bushing rolling device. 2,309,824; Feb. 2.
Brown, Frank. (See Olpin, H. C., Argyle, and Brown.)
Brown Instrument Company, The. (See Harrison, Thomas R., assignor.)
Brown Instrument Company, The. (See Skagerberg, Rutcher, assignor.)
Browne, Wesley P., and A. L. Sheldon, Winter Garden, Fla. Field box. 2,310,063; Feb. 2.
Bryant Heater Company, The. (See Higley, Frank R., assignor.)
Bulldog Electric Products Company. (See Frank, W. H., and Bassette, assignors.)
Bulldog Electric Products Company. (See Messing, Joseph A., assignor.)
Burdett, Roy E., assignor to Pacific Mills, Lawrence, Mass. Weaving. 2,309,825; Feb. 2.
Burrell, Harry, Newark, N. J., assignor to Ellis-Foster Company. Nitrolignin molding composition and making same. 2,310,010; Feb. 2.
Busch, Charles R., Orange, N. J. Brake rigging and/or railway car truck. 2,310,195; Feb. 2.
Byerly, Robert W., New York, N. Y. Method and apparatus for graphical computation for the solution of navigation problems and similar problems. 2,309,930; Feb. 2.
Byers Machine Company, The. (See Ferguson, Berlin S., assignor.)
Byrkit, Gordon D. (See Davis, L. L., Lincoln, and Byrkit.)
Cain, Gordon A. (See Chatelain, J. B., and Cain.)
Cameron, Shelton T., Washington, D. C., assignor, by mesne assignments, to Minerals Beneficiation Incorporated, Joplin, Mo. Separating ore particles in gravity separating mediums. 2,309,931; Feb. 2.
Campbell, Rouel R., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Control mechanism. 2,309,749; Feb. 2.
Canon, Hartman B., Deerfield, and J. L. Swallow, Lombard, assignors of one-half to Wells-Gardner & Co. and one-half to Gard-Well Co., Inc., Chicago, Ill. Emergency transmitter. 2,310,017; Feb. 2.
Cantrell, Cyrus D., Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company. Sampling apparatus. 2,309,625; Feb. 2.
Caplan, Solomon, New York, N. Y., assignor to The Harvel Corporation. Mixed ether-esters of cashew nutshell liquid and preparation. 2,310,146; Feb. 2.
Carbide and Carbon Chemicals Corporation. (See Wilkes, B. G., and Wassell, assignors.)
Carborundum Company, The. (See Benner, Raymond C., assignor.)
Carlson, Gustaf H., Pearl River, assignor to Lederle Laboratories, Inc., New York, N. Y. Synthesizing vitamin B_6. 2,310,167; Feb. 2.
Carlson, Gustaf H., Pearl River, assignor to Lederle Laboratories, Inc., New York, N. Y. Vitamin B_6 intermediate. 2,310,168; Feb. 2.
Carlson, Gustaf H., Pearl River, assignor to Lederle Laboratories, Inc., New York, N. Y. Vitamin B_6 intermediate. 2,310,169; Feb. 2.
Carlson, Gustaf H., Pearl River, assignor to Lederle Laboratories, Inc., New York, N. Y. Vitamin B_6 intermediate. 2,310,170; Feb. 2.
Carlson, Gustaf H., Pearl River, assignor to Lederle Laboratories, Inc., New York, N. Y. Vitamin B_6 intermediate. 2,310,171; Feb. 2.
Carlson, Gustaf H., Pearl River, assignor to Lederle Laboratories, Inc., New York, N. Y. Vitamin B_6 intermediate. 2,310,172; Feb. 2.
Carman, James W., Seattle, Wash. Air treatment device. 2,309,885; Feb. 2.
Carnagua, Harold E., and W. B. Osborne, Muncie, Ind., assignors to Borg-Warner Corporation, Chicago, Ill. Automatic transmission and control system therefor. 2,309,826; Feb. 2.
Carpenter, Morris T. (See Roberts, J. K., and Carpenter.)
Carrington, George E., Fulton, Mo. Earth mover. 2,309,750; Feb. 2.

Cassel, Norman S., Ridgewood, N. J., assignor to Interchemical Corporation, New York, N. Y. Method and composition for producing textile printing emulsions. 2,310,012; Feb. 2.
Cassel, Norman S., Ridgewood, N. J., assignor to Interchemical Corporation, New York, N. Y. Making diazo printing pastes and product. 2,310,013; Feb. 2.
Cauwenberg, Winfred J. (See Ryan, L. W., and Cauwenberg.)
Cave, Henry, and A. L. Le Febvre, assignors to The Fuller Brush Company, Hartford, Conn. Connector for mop and brush handles. 2,310,011; Feb. 2.
Celanese Corporation of America. (See Olpin, H. C., Argyle, and Brown, assignors.)
Certain-teed Products Corporation. (See Gardner, Harry F., assignor.)
Chance, A. B., Company. (See Chance, Albert B., assignor.)
Chance, A. B., Company. (See Hubbard, David C., assignor.)
Chance, Albert B., assignor to A. B. Chance Company, Centralia, Mo. Pole guying fixture. 2,309,751; Feb. 2.
Chatelain, John B., and G. A. Cain, Freeport, Tex., assignors to Freeport Sulphur Company, New York, N. Y. Method and apparatus for providing a controlled supply of sulphur combustion gases. 2,310,173; Feb. 2.
Chicago Electric Manufacturing Company. (See Gough, James J., assignor.)
Chisholm-Ryder Company. (See de Back, William, assignor.)
Chittick, Martin B., Wilmette, Ill., and P. V. McKinney, Pittsburgh, Pa., assignors to The Pure Oil Company, Chicago, Ill. Sulphur polymer plastic compositions. 2,309,692; Feb. 2.
Chittum, James P., and G. E. Hulse, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y. Rubber hydrochloride composition. 2,309,932; Feb. 2.
Chrysler Corporation. (See Dalby, Walter E., assignor.)
Chrysler Corporation. (See Fishburn, Otto E., assignor.)
Chrysler Corporation. (See Patterson, Herbert F., assignor.)
Chrysler Corporation. (See Utz, Chester C., assignor.)
Churchill, Ralph H., Chicago, Ill. Cover. 2,309,933; Feb. 2.
Ciba Pharmaceutical Products, Incorporated. (See Miescher, K., and Wettstein, assignors.)
Ciba Products Corporaton. (See Widmer, G., and Fisch, assignors.)
Clay, Roby J., Sturgis, Mich. Electrical measuring device. 2,309,934; Feb. 2.
Clayton, James O. (See Farrington, B. B., Clayton, and Rutherford.)
Claytor, Edwin E., Long Beach, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,309,935; Feb. 2.
Cohen, Morris, assignor to Interstate Bakeries Corporation, Kansas City, Mo. Article distributing system. 2,310,160; Feb. 2.
Collins, Wilbur F., Oakland, Calif. Electrode holder. 2,309,886; Feb. 2.
Commercial Solvents Corporation. (See Hodge, Edward B., assignor.)
Commercial Solvents Corporation. (See Tindall, John B., assignor.)
Conrad, Ivan W., Alexandria, Va. Color photography. 2,309,626; Feb. 2.
Conti, John A., East Templeton, assignor to Hedstrom-Union Company, Gardner, Mass. Tricycle. 2,310,064; Feb. 2.
Continental Aviation and Engineering Corporation. (See Kinnucan, James W., assignor.)
Continental Can Company. (See Pearson, Paul E., assignor.)
Continental Carbon Company. (See McKinney, Charles E., assignor.)
Continental Machines, Incorporated. (See Wilkie, Robert J., assignor.)
Continental Oil Company. (See Athy, L. F., and McCollum, assignors.)
Continental Oil Company. (See Davis, L. L., Lincoln, and Byrkit, assignors.)
Continental Screen Company. (See Fry, William R., assignor.)
Cooke, Hereward L., and G. P. Harnwell, Princeton, N. J., assignors to Aero Survey Corporation. Contour map and making same. 2,309,627; Feb. 2.
Cooke, Hereward L., Princeton, N. J., assignor to Aero Survey Corporation. Method and apparatus for producing maps. 2,309,752; Feb. 2.
Cooperative Development Co. (See Irwin, E. M., Rule, and Lewis, assignors.)
Cooperative Development Co. (See Weinstein, D. H., and Metzner, assignors.)
Covi, John B. (See Koch, A. L., and Covi.)
Cowles, Harold A., and G. W. Simpson, Rochester, N. Y.; said Cowles assignor to said Simpson. Display carton. 2,309,753; Feb. 2.
Crary, Selden B., Schenectady, N. Y., assignor to General Electric Company. Supervision of electric systems. 2,310,065; Feb. 2.
Crist, Philip W. (See Devol, M. L., Crist, and Hazen.)
Crites, Wilbur J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Deep well pump. 2,309,827; Feb. 2.
Crook, Howard E., Sr. (See Gallo, Michael, assignor.)
Crosby, Stephen A., Jackson Heights, assignor to Speed Products Company, New York, N. Y. Tacker. 2,309,628; Feb. 2.
Crosley Corporation, The. (See Klotsch, Paul, assignor.)
Crzellitzer, Robert, Vilvorde, Belgium; vested in the Alien Property Custodian. Self-centering chuck. 2,309,754; Feb. 2.
Currier, Philip M., Ballston Spa, N. Y., assignor to General Electric Company. Electrical regulating apparatus. 2,310,066; Feb. 2.
Cutler-Hammer, Inc. (See Seeger, E. W., and Stansbury, assignors.)
Daalder, Richard, East Paterson, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Locking mechanism for servomotors. 2,310,018; Feb. 2.
Dahlberg, Tord O. R., Nockeby, assignor to Kooperativa Förbundet Förening U. P. A., Stockholm, Sweden. Coin changing vending machine. 2,309,693; Feb. 2.
Dailey, Hampton J., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electron discharge device. 2,310,147; Feb. 2.
Dalby, Walter E., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Die set. 2,309,828; Feb. 2.
Dasher, Don E., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,309,756; Feb. 2.
David, Raymond C., assignor to Fosgood Corporation, Leominster, Mass. Lens grinding and polishing machine. 2,309,936; Feb. 2.
Davis, Edward A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for handling strip material. 2,309,755; Feb. 2.
Davis, Harold S. (See Dockson, C. H., and Davis.)
Davis, Lloyd L., B. H. Lincoln, and G. D. Byrkit, assignors to Continental Oil Company, Ponca City, Okla. Sulphur-containing esters. 2,309,829; Feb. 2.
Dawson, John W., Auburndale, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass. Condenser welding system. 2,309,629; Feb. 2.
Dearle, Denis A., assignor to North and Judd Manufacturing Company, New Britain, Conn. Attachment for bird cages. 2,309,830; Feb. 2.
De Back, William, assignor to Chisholm-Ryder Company, Incorporated, Niagara Falls, N. Y. Viner. 2,309,630; Feb. 2.
De Camp, Alfred J., Molina, Colo. Leakproof fuel tank projectile. 2,309,887; Feb. 2.
Dedrick, Charles H. (See Baker, C. L., and Dedrick.)
Deere & Company. (See Strandlund, Carl G., assignor.)
Delaware Chemical Engineering Company. (See Du Pont, F. I., and Foulke, assignors.)
Deming, George M., Orange, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Aircraft breathing regulator. 2,310,189; Feb. 2.
Denneen, Francis S., Cleveland, and W. C. Dunn, Shaker Heights, assignors to The Ohio Crankshaft Company, Cleveland, Ohio. Apparatus for hardening tapered articles. 2,309,631; Feb. 2.
De Rentiis, Augusto, Prospect Park, Pa. Forming die set. 2,309,632; Feb. 2.
Despois, Robert L. (See Goissedet, P. E. C., and Despois.)
Deutsch, Hans. (See Herrmann, W. O., Haehnel, and Deutsch.)
Devol, Manson L., Wilkinsburg, P. W. Crist, Pittsburgh, and E. J. Hazen, Ford City, Pa., assignors to Pittsburgh Plate Glass Company. Method and apparatus for surfacing glass. 2,309,831; Feb. 2.
Dietrich, Hans, Mannheim-Waldhof, F. Johannessohn, Mannheim-Feudenheim, E. Rabald and W. Peris, Mannheim-Waldhof, Germany, assignors to Rare Chemicals, Inc., Nepara, N. Y. Hydroxy derivatives of sulphonal and its homologues. 2,309,937; Feb. 2.
Dilatush, Charles N., Memphis, Tenn. Gate. 2,309,694; Feb. 2.
Diserens, Paul, Summit, H. E. Karig, Chatham, N. J., and M. E. O'Connell, New York, N. Y., assignors to Worthington Pump and Machinery Corporation, Harrison, N. J. Cooling system for wind tunnels or similar enclosures. 2,309,938; Feb. 2.
Doberstein, Edward J., Blue Island, assignor to Goodman Manufacturing Company, Chicago, Ill. Cutter chain. 2,310,016; Feb. 2.
Dockson, Charles H., and H. S. Davis, Detroit, Mich. Goggles. 2,309,832; Feb. 2.
Dodd, Arthur E., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway track circuit apparatus. 2,309,757; Feb. 2.
Dodge, Adiel Y., Rockford, Ill. Universal joint. 2,309,939; Feb. 2.
Doering, Charles, H. H. Doering, B. J. Skoglund, and E. W. Anderson, Chicago, Ill.; said Skoglund and said Anderson assignors to said C. Doering and said H. H. Doering. Meat reforming and rolling machine. 2,310,067; Feb. 2.
Doering, Henry H. (See Doering, Charles and H. H., Skoglund, and Anderson.)

Douglas, Kenneth F., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter drive. 2,310,174; Feb. 2.
Douglas, Peyton W., Utica, N. Y., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Domestic washing machine. 2,309,940; Feb. 2.
Dow Chemical Company, The. (See Prendergast, J. J., Jones, and Guillett, assignors.)
Droeger, Carl C., Greenfield, Ind. Structural material for sound-proofing. 2,309,695; Feb. 2.
Drummond, Carlton C., Providence, R. I. Warning signal device. 2,309,941; Feb. 2.
Dunn, William C. (See Denneen, F. S., and Dunn.)
Du Pont, E. I., de Nemours & Company. (See Barnes, Carl E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Gordon, Wallace E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Howell, Edward T., assignor.)
Du Pont, E. I., de Nemours & Company. (See Wuertz, A. J., and Whelen, assignors.)
Du Pont, Francis I., Wilmington, Del., and W. B. Foulke, Media, Pa., assignors to Delaware Chemical Engineering Company, Wilmington, Del. Neutralization of acid sludges. 2,309,633; Feb. 2.
Eaton Manufacturing Company. (See Voorhies, Carl, assignor.)
Edahl, Knute, and C. J. Holland, Chicago, Ill., assignors to Holland Company. Railway car truck. 2,309,634; Feb. 2.
Edelmann, Leo, Chicago, Ill. Article container drawer. 2,309,888; Feb. 2.
Edison, Thomas A., Incorporated. (See Somers, Richard M., assignor.)
Edwards, Lawrence L., Cleveland, Ohio. Mower. 2,309,635; Feb. 2.
Ekstedt, John W. and K. W., Union, assignors to General Eyelet Supply Company, Inc., Roselle Park, N. J. Method of and blank for producing eyelets or the like. 2,309,942; Feb. 2.
Ekstedt, Kenneth W. (See Ekstedt, John W. and K. W.)
Ellis-Foster Company. (See Burrell, Harry, assignor.)
Ellis-Foster Company. (See Rust, John B., assignor.)
Elze, Wilhelm, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian. Arrangement for the cooling of the compressor space of air and gas compressors. 2,309,833; Feb. 2.
Emerson, Walter H., East Liverpool, Ohio, assignor to The Homer Laughlin China Company, Newell, W. Va. Pressing apparatus for plastic material. 2,310,068; Feb. 2.
Emmens, Hendrik. (See van Geel, W. C., Emmens, and Esseling.)
English, Jackson P. (See Roblin, R. O., Jr., and English.)
Englund, Walter, Mount Vernon, N. Y. Tea or coffee pot. 2,309,834; Feb. 2.
Ernst, Walter, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del. Hydraulic machine circuit. 2,309,758; Feb. 2.
Ernst, Walter, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp., Inc., Wilmington, Del. Multiple circuit heat transfer. 2,309,943; Feb. 2.
Esch, Rudolf E. (See Losey, C. V., and Esch.)
Esseling, Ludovicus A. L. (See van Geel, W. C., Emmens, and Esseling.)
Euclid Road Machinery Company, The. (See Armington, Raymond Q., assignor.)
Eves, Frederick S., assignor to Automotive Products Company Limited, London, England. Liquid pressure remote control system, more particularly for operating soot blowers of boilers and the like. 2,309,889; Feb. 2.
Fagan, John E. (See Wolff, J. G., Huelster, and Fagan.)
Fahnoe, Harold H., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,310,069; Feb. 2.
Falcon, Jeronimo. (See Baker, Louis M., assignor.)
Farrington, Bruce B., J. O. Clayton, and J. T. Rutherford, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Compounded mineral oil. 2,310,175; Feb. 2.
Fearon, Robert E., assignor to Well Surveys, Incorporated, Tulsa, Okla. Well logging apparatus and method thereof. 2,309,835; Feb. 2.
Fenton, John P., Boston, Mass., assignor to American Sandpaper Company. Abrasive article. 2,309,836; Feb. 2.
Fergueson, Arthur P., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Brake lever. 2,309,636; Feb. 2.
Ferguson, Berlin S., assignor to The Byers Machine Company, Ravenna, Ohio. Line control mechanism. 2,309,759; Feb. 2.
Fernandez, Dan T. (See Radtke, A. C., and Fernandez.)
Fibre Can and Machinery Company, The. (See Bronson, Frederick L., assignor.)
Fickett, Ernest L., and W. O. Forman, assignors to Fitchburg Engineering Corporation, Fitchburg, Mass. Climb milling machine. 2,309,637; Feb. 2.
Fink, Lucynda I., Liscomb, Iowa. Hair waving apparatus. 2,309,638; Feb. 2.
First, George B., assignor to Stokes and Smith Company, Summerdale, Philadelphia, Pa. Method of and apparatus for closing bags. 2,309,760; Feb. 2.
Fisch, Willi. (See Widmer, G., and Fisch.)
Fishburn, Otto E., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Transmission shift mechanism. 2,309,837; Feb. 2.
Fisher, Reginald J., assignor to Avery Equipment Limited, London, England. Coupling device for pipes. 2,309,890; Feb. 2.
Fisk, James C., Flint, Mich. Comparator gauge. 2,309,891; Feb. 2.
Fitch, Howard M., and W. K. Gregory, assignors to American Air Filter Company, Inc., Louisville, Ky. Self-cleaning automotive air cleaner. 2,309,838; Feb. 2.
Fitchburg Engineering Corporation. (See Fickett, E. L., and Forman, assignors.)
Flowers, Paul E., Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Platen leveling device. 2,309,944; Feb. 2.
Folmer Graflex Corporation, The. (See Steiner, Oscar, assignor.)
Forman, William O. (See Fickett, E. L., and Forman.)
Fosgood Corporation. (See David, Raymond C., assignor.)
Foulke, Willing B. (See Du Pont, F. I., and Foulke.)
Fox Products Company. (See Miller, Robert M., assignor.)
Franco-British Electrical Company, Limited, The. (See Brackensey, Auguste H., assignor.)
Frank, Edward J. (See Thumin, C., Frank, and Boisseau.)
Frank, William H., and A. S. Bassette, assignors to Bulldog Electric Products Company, Detroit, Mich. Electrical distribution system. 2,310,024; Feb. 2.
Freeport Sulphur Company. (See Axelrad, B. A., and Powell, assignors.)
Freeport Sulphur Company. (See Chatelain, J. B., and Cain, assignors.)
Fregeolle, Oscar, assignor to Hemphill Company, Central Falls, R. I. Knitting machine and method. 2,310,070; Feb. 2.
Fridén, John H., Maplewood, assignor to The Sun Tube Corporation, Hillside, N. J. Collapsible tube apparatus. 2,309,696; Feb. 2.
Frisch, William F., Pittsfield, Mass., assignor to General Electric Company. Condenser winding machine. 2,310,071; Feb. 2.
Fry, Benjamin W., University City, assignor to National Vendors, Inc., St. Louis, Mo. Vending machine. 2,310,072; Feb. 2.
Fry, William R., Brookline, Pa., assignor, by mesne assignments, to Continental Screen Company, Detroit, Mich. Screen construction. 2,309,761; Feb. 2.
Fuller Brush Company, The. (See Cave, H. and Le-Febvre, assignors.)
Gabalis, Julius J., Prospect Park, and F. A. Meyer, Sharon Hill, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Governing mechanism. 2,309,892; Feb. 2.
Gallo, Michael, assignor of fifty per cent to H. E. Crook, Sr., Baltimore, Md. Electrode holder. 2,310,020; Feb. 2.
Gardner, Dwight R., Springfield, Mass., assignor to The American Thread Company, New York, N. Y. Bobbin case. 2,309,639; Feb. 2.
Gardner, Harry F., Snyder, assignor to Certain-teed Products Corporation, New York, N. Y. Set stabilized plaster. 2,310,023; Feb. 2.
Gardner, John R., Houston, Tex. Float collar. 2,309,839; Feb. 2.
Gard-well Co., et al., Inc. (See Canon, H. B., and Swallow, assignors.)
Garman, George W. (See Palmer, H. L., and Garman.)
Garvert, Clarence F., and P. B. Knepper, Topeka, Kans. Illuminated door lock. 2,309,840; Feb. 2.
Garvin, John S., Bogota, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Polarized relay. 2,309,945; Feb. 2.
Gearhart, Glenn D., Washington, D. C., assignor of one-fifth to A. Accola, Slater, Iowa. Hydrocarbon burner. 2,309,762; Feb. 2.
Geigy, J. R., A. G. (See Martin, H., and Zaeslin, assignors.)
Geipe, Sara. (See Gustafson, B., and Geipe.)
General Controls Co. (See Paille, Eugene, assignor.)
General Electric Company. (See Crary, Selden B., assignor.)
General Electric Company. (See Currier, Philip M., assignor.)
General Electric Company. (See Frisch, William F., assignor.)
General Electric Company. (See Howard, Alan, assignor.)
General Electric Company. (See Korndörfer, Hubert, assignor.)
General Electric Company. (See Lord, Harold W., assignor.)
General Electric Company. (See Maynard, John E., assignor.)
General Electric Company. (See Michel, Philip C., assignor.)
General Electric Company. (See Nordlander, Birger W., assignor.)
General Electric Company. (See Palmer, H. L., and Garman, assignors.)
General Electric Company. (See Skeats, Wilfred F., assignor.)
General Electric Company. See Thumin, C., Frank, and Boisseau, assignors.)

General Eyelet Supply Company. (See Ekstedt, John W. and K. W., assignors.)
General Motors Corporation. (See Bowen, Orville R., assignor.)
General Motors Corporation. (See Dasher, Don E., assignor.)
General Motors Corporation. (See Hill, Robert H., assignor.)
General Motors Corporation. (See Holmes, J. Q., and Wiegand, assignors.)
General Motors Corporation. (See Kaufman, Daniel L., assignor.)
General Motors Corporation. (See Reeves, Donald H., assignor.)
General Motors Corporation. (See Stickel, Carl A., assignor.)
Gersbach, Herbert A., Malverne Park, assignor to Perey Manufacturing Company, Inc., New York, N. Y. Turnstile. 2,309,893; Feb. 2.
Gessler, Albert E., New York, and R. A. Pizzarello, Mount Vernon, assignors to Interchemical Corporation, New York, N. Y. Textile printing composition and printing therewith. 2,309,946; Feb. 2.
Gibbs, Geoffrey M., and T. R. Tusting, London, England. Amphibious armored vehicle. 2,309,947; Feb. 2.
Giern, James B., and A. P. Anholtt, Detroit, Mich. Universal vise. 2,310,025; Feb. 2.
Gillette Safety Razor Company. (See Muros, Joseph, assignor.)
Globe-Union Inc. (See Stoekle, Erwin R., assignor.)
Goebel, Henry, Vista, Calif. Fruit picker. 2,309,948; Feb. 2.
Goettsch, Walter J., Kenilworth, Ill., assignor to Samuel M. Langston Co., Camden, N. J. Production of paper board units. 2,309,728; Feb. 2.
Goissedet, Paul E. C., and R. L. Despois, Choisy-le-Roi, France; vested in the Alien Property Custodian. Preparation of new soluble aromatic amido compounds of therapeutic value. 2,309,841; Feb. 2.
Gold, Arnold, New York, N. Y., and S. Spielman, Philadelphia, Pa. Fan attachment for sewing machines. 2,309,894; Feb. 2.
Gooding, Chester M., Staten Island, assignor to The Best Food, Inc., New York, N. Y. Preparation of mixed esters of polyhydric alcohols. 2,309,949; Feb. 2.
Goodman Manufacturing Company. (See Doberstein, Edward J., assignor.)
Goodrich, B. F., Company, The. (See Davis, Edward A., assignor.)
Goodstein, Charles B., Brooklyn, N. Y., assignor to Boston Wire Stitcher Company, Warwick, R. I. Fastener applying device. 2,309,763; Feb. 2.
Goodwin, George I., Detroit, Mich. Clutch plate. 2,309,950; Feb. 2.
Gordon, Wallace E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Molding of polymeric materials. 2,309,729; Feb. 2.
Götte, Ernst, Dessau in Anhalt, Germany, assignor, by mesne assignments, to "Unichem" Chemikalien Handels A.-G., Zurich, Switzerland. Treatment bath. 2,310,074; Feb. 2.
Gottier, Thomas L., Westmont, N. J., assignor to Radio Corporation of America. Television system. 2,309,764; Feb. 2.
Gough, James J., assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Electric toaster. 2,309,640; Feb. 2.
Gough, James J., assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Electric appliance. 2,309,641; Feb. 2.
Graham, Emery W. (See Quintin, R. A., and Graham.)
Granite City Steel Company. (See Veeder, Nicholas P., assignor.)
Gräwer, Engelbert, Leipzig, Germany, assignor to I. Araneta, Lima, Peru. Stone ceiling. 2,309,842; Feb. 2.
Gray, Robert, Waltham, assignor to Raytheon Production Corporation, Newton, Mass. Electrode support lead. 2,309,642; Feb. 2.
Green, Alfred L., Sydney, assignor to Amalgamated Wireless (Australasia) Limited, Sydney, New South Wales, Australia. Control of fading in radio communication systems. 2,310,196; Feb. 2.
Greenberg, Herman, et al. (See Bausman, Alonzo L., assignor.)
Greenberg, Joseph, et al. (See Bausman, Alonzo L., assignor.)
Greenberg, Samuel, et al. (See Bausman, Alonzo L., assignor.)
Greenberg, Sidney, et al. (See Bausman, Alonzo L., assignor.)
Greenspan, Saul, Brooklyn, N. Y. Sink or tub repair bottom. 2,309,843; Feb. 2.
Gregory, William K. (See Fitch, H. M., and Gregory.)
Greig, Louis T. H., Nazeing, England. Pipe coupling. 2,310,073; Feb. 2.
Griffith, Rose M., Chicago, Ill. Closure for collapsible tubes. 2,309,895; Feb. 2.
Guillett, Watrous N. (See Prendergast, J. J., Jones, and Guillett.)
Gunderson, Norris E., assignor to Layne-Northern Company, Incorporated, Mishawaka, Ind. Well cleaning. 2,309,697; Feb. 2.
Gustafson, Bertha, Edmore, Mich., and S. Geipe, Chicago, Ill. Partition device. 2,309,896; Feb. 2.

Gustavson, Elmer G., assignor to Quaker Oats Company, Chicago, Ill. Canned food product. 2,310,028; Feb. 2.
Haase, Leo G., Hollywood, Calif. Set screw spotter. 2,309,765; Feb. 2.
Haddock, John W., Michigan City, Ind., assignor to Sullivan Machinery Company. Apparatus for cleaning holes. 2,310,001; Feb. 2.
Hadjepetres, Apostolos G., Chicago, Ill. Toy. 2,310,075; Feb. 2.
Haehnel, Wolfram. (See Herrmann, W. O., Haehnel, and Deutsch.)
Hale, Arthur N., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Needle-vibrating mechanism for sewing machines. 2,310,176; Feb. 2.
Hall, Elisha W., Scituate, Mass. Rotary abrading tool. 2,309,951; Feb. 2.
Hall, Jesse E., Los Angeles, assignor to Pacific Pump Works, Huntington Park, Calif. Pump. 2,309,897; Feb. 2.
Haller, Cecil E. (See Knowles, D. D., and Haller.)
Hamblet, Marcia C., New York, N. Y. Multiple wick candle and making same. 2,310,019; Feb. 2.
Hamm, Edward C. (See Shaffer, D. U., and Hamm.)
Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Television system. 2,310,197; Feb. 2.
Hansen, Ernest F., Meridian, Tex. Reinforced vehicle fender. 2,309,898; Feb. 2.
Hansgirg, Fritz, San Mateo, assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., as trustee. Sublimation refining. 2,309,643; Feb. 2.
Hansgirg, Fritz J., San Mateo, assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., as trustee. Sublimation apparatus. 2,309,644; Feb. 2.
Hansgirg, Fritz J., San Mateo, assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., as trustee. Sublimation refining. 2,310,188; Feb. 2.
Harder, Edwin L. (See Langguth, P. O., and Harder.)
Harder, Edwin L., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Signaling system. 2,310,076; Feb. 2.
Harnwell, Gaylord P. (See Cooke, H. L., and Harnwell.)
Harrington, Ronald J., Brooklyn, and F. P. Shearer, Queens Village, N. Y. Sales register. 2,309,645; Feb. 2.
Harris, Norman C., and J. P. Whann, assignors to Puett Electrical Starting Gate Corporation, Los Angeles, Calif. Starting gate. 2,309,952; Feb. 2.
Harris-Seybold-Potter Company. (See Pritchard, Howard A., assignor.)
Harrison, Henry C., Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric switch. 2,309,953; Feb. 2.
Harrison, Thomas R., Wyncote, assignor to The Brown Instrument Company, Philadelphia, Pa. Control system. 2,310,027; Feb. 2.
Harroun, Helen M., et al. (See Harroun, R. W. (assignor), and Pribil.)
Harroun, Ray W., and M. K. Pribil, said Harroun assignor of one-sixth to H. M. Harroun, and said Pribil assignor of one-fourth to S. Pribil, Saginaw, Mich. Automotive train. 2,309,766; Feb. 2.
Hartford National Bank and Trust Company, trustee. (See van Geel, W. C., Emmens, and Esseling, assignors.)
Harvel Corporation, The. (See Caplan, Solomon, assignor.)
Harvel Corporation, The. (See Harvey, Mortimer T., assignor.)
Harvey, Jacquelin E., Jr., Atlanta, assignor of one-half to Southern Wood Preserving Company, East Point, Ga. Production of valuable liquids from liquid and solid hydrocarbons. 2,309,945; Feb. 2.
Harvey, Jacquelin E., Jr., Atlanta, assignor of one-half to Southern Wood Preserving Company, East Point, Ga. Producing solvents. 2,310,190; Feb. 2.
Harvey, Jacquelin E., Jr., Atlanta, assignor of one-half to Southern Wood Preserving Company, East Point, Ga. Conversion of creosote. 2,310,191; Feb. 2.
Harvey, Jacquelin E., Jr., Atlanta, assignor of one-half to Southern Wood Preserving Company, East Point, Ga. Hydrocarbon conversion. 2,310,192; Feb. 2.
Harvey, Jacquelin E., Jr., Atlanta, assignor of one-half to Southern Wood Preserving Company, East Point, Ga. Treating pitch. 2,310,193; Feb. 2.
Harvey, Jacquelin E., Jr., Atlanta, assignor of one-half to Southern Wood Preserving Company, East Point, Ga. Producing toxic material. 2,310,194; Feb. 2.
Harvey, James W., Lakeville, Conn., assignor of one-half to R. S. Allyn, New York, N. Y., and one-half to S. A. Harvey, Lakeville, Conn. Fish lure. 2,309,902; Feb. 2.
Harvey, Mortimer T., East Orange, N. J., assignor to The Harvel Corporation. Insulating part of storage batteries. 2,310,077; Feb. 2.
Harvey, Starr A., et al. (See Harvey, James W., assignor.)
Hastings, Russell, Jr., Wellesley Hills, assignor to Lewis-Shepard Company, Watertown, Mass. Side delivery transporting machine. 2,309,730; Feb. 2.
Hays, Samuel E. (See Ballard, C. H., Banter, and Hays.)
Hazeltine Corporation. (See Lewis, Harold M., assignor.)

Hazen, Ethmer J. (See Devol, M. L., Crist, and Hazen.)
Hedstrom-Union Company. (See Conti, John A., assignor.)
Heidbrink, Jay A., Minneapolis, Minn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Dispensing gases. 2,310,021; Feb. 2.
Heidbrink, Jay A., Minneapolis, Minn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Oxygen delivering apparatus of the demand type. 2,310,022; Feb. 2.
Heltzel, Francis O., Philadelphia, Pa. Transverse expansion and contraction joint. 2,309,767; Feb. 2.
Hemphill Company. (See Fregeolle, Oscar, assignor.)
Henrikson, Peter H., Los Angeles, Calif. Time reminder clock. 2,309,844; Feb. 2.
Hepperle, Adolf, North Bergen, N. J. Adjustable pitch propeller. 2,309,899; Feb. 2.
Hercules Powder Company. (See Wilson, Ernest S., assignor.)
Herman, Kenneth R., assignor to Vickers Incorporated, Detroit, Mich. Pump or motor for power transmission. 2,310,078; Feb. 2.
Hermansson, Adolf H., assignor to Aga-Baltic Radio Aktiebolag, Stockholm, Sweden. Directional radio beacon. 2,310,079; Feb. 2.
Herring, William A., and R. D. Barnett, South Gate, Calif. Faucet valve. 2,309,900; Feb. 2.
Herrmann, Willy O., Deishofen, Upper Bavaria, W. Haehnel and H. Deutsch, Munich, Germany; vested in the Alien Property Custodian. Producing polyethines or their derivatives. 2,309,768; Feb. 2.
Higley, Frank R., Cleveland Heights, assignor to The Bryant Heater Company, Cleveland, Ohio. Thermopile. 2,310,026; Feb. 2.
Hill, Robert H., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Nonoverfill device. 2,310,080; Feb. 2.
Hill, Robert H., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Generator transmission. 2,310,081; Feb. 2.
Hirschfeld, Rudolf, New York, N. Y. Garment construction. 2,309,955; Feb. 2.
Hodge, Edward B., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Recovery of nitric oxide and hydrocarbons from gaseous mixtures. 2,309,845; Feb. 2.
Högfors, Hans F. B., Enskede, near Stockholm, assignor to Svenska Kassaregisteraktiebolaget, Stockholm, Sweden. Cash register, adding and accounting machines, and the like. 2,309,901; Feb. 2.
Holbrooke, Dan A., New York, N. Y. Bandage. 2,310,082; Feb. 2.
Holland Company. (See Edahl, K., and Holland, assignors.)
Holland, Cyrus J. (See Edahl, K., and Holland.)
Holm, Einer M., Detroit, Mich. Inhaler. 2,309,846; Feb. 2.
Holmes, Charles M., et al. (See Starks, Hugh, assignor.)
Holmes, John Q., and C. J. Wiegand, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Apparatus for forming side openings in metal tubing. 2,310,083; Feb. 2.
Holton, Richard C., assignor of one-half to E. Wall, Lubbock, Tex. Go-devil cultivator. 2,309,847; Feb. 2.
Homer Laughlin China Company, The. (See Emerson, Walter H., assignor.)
Hooker, Donald E., C. T. Breitenstein, and N. A. Nelson, assignors to R. T. Moloney, Chicago, Ill. Light responsive target apparatus. 2,310,084; Feb. 2.
Hooker, Donald E., and F. G. Nicolaus, assignors to R. T. Moloney, Chicago, Ill. Target shooting apparatus. 2,310,085; Feb. 2.
Hoppe, Alfred G., Wauwatosa, Wis. Vestibule passageway for railway vehicles. 2,310,088; Feb. 2.
Horn, Josef, Wiesbaden-Biebrich, Germany; vested in the Alien Property Custodian. Photoprinting device. 2,310,148; Feb. 2.
Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Wiper blade forming machine and process. 2,310,177; Feb. 2.
Houdaille-Hershey Corporation. (See Fergueson, Arthur P., assignor.)
Houdaille-Hershey Corporation. (See Smith, Frederick A., assignor.)
Houdaille-Hershey Corporation. (See Wohlfield, Frederick W., assignor.)
Howard, Alan, Schenectady, N. Y., assignor to General Electric Company. Surface type heat exchanger. 2,310,086; Feb. 2.
Howell, Edward T., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dyestuffs of the dibenzanthrone series. 2,310,087; Feb. 2.
Hubbard, David C., assignor to A. B. Chance Company, Centralia, Mo. Fused cutout. 2,309,698; Feb. 2.
Hubbard, David C., assignor to A. B. Chance Company, Centralia, Mo. Transformer gin. 2,309,769; Feb. 2.
Hudson, Richard P. (See Moseley, J. M., and Hudson.)
Hudson, William L., Chicago, Ill. Periodic coin collector. 2,310,089; Feb. 2.
Huelster, Otto J. (See Wolff, J. G., Huelster, and Fagan.)
Huff, Edward I., Nutley, N. J., assignor to Huff Equipment Company. Annealing furnace. 2,309,699; Feb. 2.
Huff, Edward I., Nutley, N. J., assignor to Huff Equipment Company. Annealing furnace. 2,309,700; Feb. 2.
Huff Equipment Company. (See Huff, Edward I., assignor.)
Hughes, Arthur J., Chigwell Row, assignor of one-half to H. Hughes & Son Limited, London, England. Apparatus for depth measurement. 2,309,956; Feb. 2.
Hughes By-Product Coke Oven Corporation. (See Hughes, Charles H., assignor.)
Hughes, Charles H., Glen Ridge, N. J., assignor to Hughes By-Product Coke Oven Corporation, New York, N. Y. Coking carbonaceous material. 2,309,957; Feb. 2.
Hughes, Charles H., Glen Ridge, N. J., assignor to Hughes By-Product Coke Oven Corporation, New York, N. Y. Coking carbonaceous material. 2,309,958; Feb. 2.
Hughes, Charles H., Glen Ridge, N. J., assignor to Hughes By-Product Coke Oven Corporation, New York, N. Y. Coking carbonaceous material. 2,309,959; Feb. 2.
Hughes, Henry, & Son Limited. (See Hughes, Arthur J., assignor.)
Hulse, George E. (See Chittum, J. P., and Hulse.)
Hume Pipe Company (Australia) Limited. (See Hume, Walter R., assignor.)
Hume, Walter R., assignor to Hume Pipe Company (Australia) Limited, Melbourne, Victoria. Coating and manufacture of pipes. 2,309,903; Feb. 2.
Hunsdorf, William P., Cleveland, Ohio. Electric motor. 2,309,904; Feb. 2.
Hunt, Rodney, Machine Company. (See Jones, Bliss M. and Streeter, assignors.)
Hydraulic Development Corp., The. (See Ernst, Walter, assignor.)
Hydraulic Development Corporation, The. (See Flowers, Paul E., assignor.)
Hydraulic Development Corporation, The. (See Riddle, William J., assignor.)
Hydraulic Development Corp. Inc. (See Tucker, Warren R., assignor.)
Industrial Rayon Corporation. (See Bergmann, Richard F., assignor.)
Industrial Rayon Corporation. (See Jordan, Lavern J., assignor.)
Interchemical Corporation. (See Cassel, Norman S., assignor.)
Interchemical Corporation. (See Gessler, A. E., and Pizzarello, assignors.)
Interchemical Corporation. (See Reynolds, W. B., and Scully, assignors.)
Interchemical Corporation. (See Ryan, L. W., and Cauwenberg, assignors.)
International Standard Electric Corporation. (See Litton, Charles V., assignor.)
International Standard Electric Corporation. (See McLarn, Ernest S., assignor.)
International Standard Electric Corporation. (See Scott, T. R., and Webb, assignors.)
Interstate Bakeries Corporation. (See Cohen, Morris, assignor.)
Irwin, Emmett M., and B. H. Rule, Pasadena, and G. E. Lewis, Alhambra, assignors to Cooperative Development Co., Los Angeles, Calif. Device for surveying well bores. 2,309,905; Feb. 2.
Jacobson, Charles, New York, assignor to S. & S. Corrugated Paper Machinery Company, Inc., Brooklyn, N. Y. Adjustment for running registers. 2,309,646; Feb. 2.
Jauch, Robert J., and R. H. Arnold, assignors to The Wayne Pump Company, Fort Wayne, Ind. Pump. 2,310,178; Feb. 2.
Jefferson Electric Company. (See Pearson, Oscar A., assignor.)
Johannessohn, Fritz. (See Dietrich, T., Johannessohn, Rabald, and Peris.)
Johnson, Frank E., Malden, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Rotary operative fastener. 2,309,731; Feb. 2.
Johnson, Frank E., Malden, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Rotary operative fastener. 2,309,732; Feb. 2.
Johnson, Roy W., Milwaukee, Wis. Constant level device. 2,309,770; Feb. 2.
Jones, Bliss M., and C. H. Streeter, assignors to Rodney Hunt Machine Company, Orange, Mass. Adjustable cloth guide. 2,309,647; Feb. 2.
Jones, Ronald A. (See Prendergast, J. J., Jones, and Guillett.)
Jones, Walter I., Belmont, assignors to United-Carr Fastener Corporation, Cambridge, Mass. Rotary operative fastener. 2,309,733; Feb. 2.
Jordan, Lavern J., Fairview Village, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Treating thread or the like. 2,309,771; Feb. 2.
Kaiser, Donald W. (See Thurston, J. T., and Kaiser.)
Kalaydjian, Antoine G., New York, N. Y. Time switch. 2,310,090; Feb. 2.
Karger, Manasse, New Orleans, La. Garden hose stand. 2,309,772; Feb. 2.
Karig, Horace E. (See Diserens, P., Darig, and O'Connell.)
Kast, Samuel H. (See Koppitz, C. G., and Kast.)
Kaufman, Daniel L., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,309,773; Feb. 2.
Kausal, Kenneth C. (See Kausal, Rudolph A. and K. C.)

Kausal, Rudolph A. and K. C., St. Louis, Mo. Racket stringing device. 2,309,849; Feb. 2.
Kehl, Robert J., Manhasset, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Gas generating system. 2,309,701; Feb. 2.
Kellogg, M. W., Company, The. (See Austin, Harold R., assignor.)
Kelly, Hugh W., Woodbridge, assignor to S. E. Westergaard, Rahway, N. J. Power transmission belt. 2,309,648; Feb. 2.
Kelsey, Howard W., Bayside, N. Y. Lawn trimmer. 2,309,906; Feb. 2.
Kepler, Francis M., Upper Darby, Pa. Machine for and method of bending tubing. 2,310,091; Feb. 2.
Kershaw, Henry, Belleville, N. J. Photographic apparatus. 2,309,960; Feb. 2.
Kestenbaum, Paul, Brooklyn, N. Y. Treating furs. 2,309,907; Feb. 2.
King, George T., Sr., Lancaster, S. C., deceased; W. C. King, administrator. Textile drying apparatus. 2,309,961; Feb. 2.
King, Walter C., administrator. (See King, George T., Sr.)
King, William R., Mineola, Tex. Differential pressure loaded control valve. 2,309,848; Feb. 2.
Kinnucan, James W., Detroit, Mich., assignor, by mesne assignments, to Continental Aviation and Engineering Corporation. Reduction drive mechanism. 2,309,908; Feb. 2.
Kirschenbaum, Samuel, Brooklyn, N. Y. Seed planting package. 2,309,702; Feb. 2.
Kistler, Hearl M., Youngstown, Ohio. Ventilator. 2,309,774; Feb. 2.
Klawitter, Branch F., Fairfax, Minn. Trailer hitch. 2,309,850; Feb. 2.
Kleinfeld, Leonard S. (See Prosser, T. W., Wahlbeck, Oswald, and Kleinfeld.)
Kline, James T., Fairfield, assignor to Automatic Devices Corporation, Bridgeport, Conn. Cigar lighter. 2,310,029; Feb. 2.
Klotsch, Paul, assignor to The Crosley Corporation, Cincinnati, Ohio. Brake control mechanism. 2,309,734; Feb. 2.
Knepper, Paul B. (See Garvert, C. F., and Knepper.)
Knowles, Dewey D., Forest Hills, Pa., and C. E. Haller, Bloomfield, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric discharge apparatus. 2,310,092; Feb. 2.
Koch, Arthur L., and J. B. Covi, Elizabeth, N. J. Vehicle construction. 2,309,735; Feb. 2.
Kohnle, Frederick, assignor to Monarch Marking System Company, Dayton, Ohio. Price tag printing machine. 2,310,179; Feb. 2.
Kooperativa Förbundet Förening U. P. A. (See Dahlberg, Tord O. R., assignor.)
Koppitz, Carl G., and S. H. Kast, assignors to Railway and Industrial Engineering Company, Greensburg, Pa. Electrical switch. 2,309,909; Feb. 2.
Korndörfer, Hubert, Berlin, Germany, assignor to General Electric Company. Electric circuit breaker. 2,310,093; Feb. 2.
Kott, Hermann, East Orange, N. J., assignor to Speedry Gravure Corporation, New York, N. Y. Viscosimeter. 2,309,910; Feb. 2.
Kowalske, Adolph L., Rogers City, Mich. Portable power drill safety support. 2,309,777; Feb. 2.
Kraus, Charles E., Sparks, Md. Coated fibro-cement product. 2,309,962; Feb. 2.
Kroll, William, Luxemburg, Luxemburg; vested in the Alien Property Custodian. Electrical resistance element. 2,310,094; Feb. 2.
Krueger, Frank, Milbrae, Calif., assignor to E. W. Bliss Company, Brooklyn, N. Y. Apparatus for making can bodies. 2,309,963; Feb. 2.
Kruse, Edward H., Fort Wayne, Ind. Bobber for fish lines. 2,310,030; Feb. 2.
Kuhne, Addie N., administratrix. (See Kuhne, Bernhard G.)
Kuhne, Bernhard G., deceased, Detroit, Mich.; A. N. Kuhne, administratrix. Fastening device for sink strainers. 2,309,851; Feb. 2.
Kuhnl, Leopold, Bridgeport, Conn., assignor to Magazine Repeating Razor Company, New York, N. Y. Razor blade magazine and blade pack therefor. 2,310,180; Feb. 2.
Lance, Ernest T., and W. L. Wells, Mount Pleasant, Tex. Production of lignite briquettes. 2,310,095; Feb. 2.
Landis Machine Company. (See Nell, Frederic, assignor.)
Landmeier, Edwin W., Cincinnati, Ohio, assignor to The Wadsworth Electric Manufacturing Company, Covington, Ky. Switch structure. 2,310,096; Feb. 2.
Landolt, Albert, Riehen, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Matting of textiles. 2,309,964; Feb. 2.
Langguth, Paul O., Irwin, and E. L. Harder, Forest Hills, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Potential device. 2,310,097; Feb. 2.
Langston, Samuel M., Co. (See Goettsch, Walter J., assignor.)
Larionoff-Romanovsky, Vladimir S., Philadelphia, Pa. Power transmission mechanism. 2,309,911; Feb. 2.
Lay, Carlton E., Akron, Ohio. Change return mechanism for vending machines. 2,309,873; Feb. 2.
Layne-Northern Company. (See Gunderson, Norris E., assignor.)
Layng, Edwin T., assignor to The Polymerization Process Corporation, Jersey City, N. J. Polymerization of olefins and catalyst therefor. 2,310,161; Feb. 2.
Lázaga, Francisco F., La Víbora, Habana, Cuba. Progressive speed ratio transmission. 2,309,912; Feb. 2.
Lederle Laboratories, Inc. (See Carlson, Gustaf H., assignor.)
Lee, Gerhard M., Aurora, Ill. Multiple match book case. 2,309,965; Feb. 2.
Lee, Samson D., Sarasota, Fla. Sanding machine. 2,309,913; Feb. 2.
Leeds and Northrup Company. (See Ross, Raymond W., assignor.)
Le Febvre, Alfred L. (See Cave, H., and Le Febvre.)
Lempco Products, Inc. (See Blazek, J. Y., Sears, and Roy, assignors.)
Lenehan, Bernard E., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Phase-sequence relaying equipment. 2,309,649; Feb. 2.
Lessmann, Gerhard P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Tension roll drives. 2,310,098; Feb. 2.
Leum, Leonard N. (See McCullough, J. H., Birkhimer, and Leum.)
Leum, Leonard N., Upper Darby, and E. R. Birkhimer, assignors to The Atlantic Refining Company, Philadelphia, Pa. Removal of mercaptans from mercaptan-solvent mixtures. 2,309,652; Feb. 2.
Leum, Leonard N., Upper Darby, and E. R. Birkhimer, assignors to The Atlantic Refining Company, Philadelphia, Pa. Removal of mercaptans from mercaptan-solvent mixtures. 2,309,653; Feb. 2.
Leum, Leonard N., Upper Darby, and E. R. Birkhimer, assignors to The Atlantic Refining Company, Philadelphia, Pa. Removal of mercaptans from mercaptan-solvent mixtures. 2,309,654; Feb. 2.
Levitt, Nathan V., New York, N. Y. Shoe last. 2,309,775; Feb. 2.
Lewis, George E. (See Irwin, E. M., Rule, and Lewis.)
Lewis, Harold M., Great Neck, N. Y., assignor to Hazeltine Corporation. Electrical filter network. 2,309,852; Feb. 2.
Lewis-Shepard Company. (See Hastings, Russell, Jr., assignor.)
Lincoln, Bert H. (See Davis, L. L., Lincoln, and Byrkit.)
Lindley Box & Paper Company. (See Ballard, C. H., Banter, and Hays, assignors.)
Linen Guild, Inc. (See Montague, John T., assignor.)
Link Aviation Devices, Inc. (See Lowkrantz, Gunne, assignor.)
Litton, Charles V., Redwood City, Calif., assignor to International Standard Electric Corporation, New York, N. Y. Velocity modulated electrical discharge tube. 2,309,966; Feb. 2.
Litton, Charles V., Redwood City, Calif., assignor to International Standard Electric Corporation, New York, N. Y. Vacuum tube seal and method. 2,309,967; Feb. 2.
Loetel, Charles E., Kansas City, assignor to Anderson-Stolz Corporation, Kansas City, Mo. Deodorant. 2,310,099; Feb. 2.
Lord, Harold W., Schenectady, N. Y., assignor to General Electric Company. Excitation circuit for electric valve apparatus. 2,310,101; Feb. 2.
Losey, Clifford V., Detroit, Mich., and R. E. Esch, Cleveland, Ohio, assignors to Vickers Incorporated, Detroit, Mich. Power transmission. 2,310,100; Feb. 2.
Lovell, Clarence A., Maplewood, N. J., and R. F. Mallina, Hastings on Hudson, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Alternating current generator. 2,309,703; Feb. 2.
Lowkrantz, Gunne, assignor to Link Aviation Devices, Inc., Binghamton, N. Y. Collimator. 2,310,031; Feb. 2.
Lumbard, Henry G. (See Schlear, William M., assignor.)
Lyman, Joseph, Huntington, and E. Norden, Pelham, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Rate and attitude indicating instrument. 2,309,853; Feb. 2.
Mackenzie, Neil M., Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y. Azo dyestuffs. 2,310,181; Feb. 2.
MacSporran, Charles, Detroit, Mich., assignor to Phillips Petroleum Company. System for storage and utilization of fuel gases. 2,309,854; Feb. 2.
Maddox, Clarence J., Seattle, Wash. Slope reducing board. 2,309,855; Feb. 2.
Magazine Repeating Razor Company. (See Kuhnl, Leopold, assignor.)
Makin, Melfred, Ontario, Oreg. Rethresher attachment for threshers. 2,309,736; Feb. 2.
Mallina, Rudolph F. (See Lovell, C. A., and Mallina.)
Marburg, Francis, Odessa, Fla. Two-cycle, supercharged, compound, Diesel engine. 2,309,968; Feb. 2.
Mariani, Paul, New York, N. Y. Heel. 2,309,776; Feb. 2.
Martin, Henry, Basel, and H. H. Zaeslin, Riehen near Basel, assignors to the firm J. R. Geigy A. G., Basel, Switzerland. Manufacture of aminodiphenylether sulphonic acids. 2,309,969; Feb. 2.

Mason, Walden W., Kansas City, Mo. Safety device for pressure vessels and the like. 2,309,856; Feb. 2.
Mathieson, Roderick R., Detroit, Mich. Telephone fixture. 2,310,032; Feb. 2.
Matteson, Elwin A., assignor to The Aetna Standard Engineering Company, Youngstown, Ohio. Apparatus for galvanizing. 2,310,162; Feb. 2.
May, John W., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh Pa. Time-delayed undervoltage tripping-mechanism for circuit breakers. 2,310,102; Feb. 2.
Maynard, Arthur H., assignor to Boston Wire Stitcher Company, Warwick, R. I. Fastener-applying implement. 2,309,778; Feb. 2.
Maynard, Arthur H., assignor to Boston Wire Stitcher Company, Warwick, R. I. Magazine for fastener-applying instruments. 2,309,779; Feb. 2.
Maynard, John E., Schenectady, N. Y., assignor to General Electric Company. Signal transmission system. 2,310,198; Feb. 2.
McAllister, Sumner H., Lafayette, and V. E. Haury, El Cerrito, assignors to Shell Development Company, San Francisco, Calif. Condensation of carbonylic compounds. 2,309,650; Feb. 2.
McCollum, Elton V. (See Athy, L. F., and McCollum.)
McCullough, James H., and E. R. Birkhimer, Philadelphia, and L. N. Leum, Upper Darby, assignors to The Atlantic Refining Company, Philadelphia, Pa. Treatment of hydrocarbon oil. 2,309,651; Feb. 2.
McDermott, Julian A., Elmhurst, N. Y. Automatic circuit controller for gaseous discharge devices. 2,310,149; Feb. 2.
McDonald, Dorothy L., Evanston, Ill. Garment. 2,310,103; Feb. 2.
McIntosh, Charles, Detroit, Mich. Superheater. 2,309,706; Feb. 2.
McKinney, Charles E., Borger, Tex., assignor to Continental Carbon Company. Manufacturing carbon black. 2,309,970; Feb. 2.
McKinney, Paul V. (See Chittick, M. B., and McKinney.)
McLaren, Peter J., assignor, by mesne assignments, to Reconstruction Finance Corporation, New York, N. Y. Gear cam track and making same. 2,309,704; Feb. 2.
McLarn, Ernest S., Manhasset, assignor to International Standard Electric Corporation, New York, N. Y. Drop wire support. 2,309,971; Feb. 2.
McLott, William C., Grand Rapids, Mich. Welding alloy. 2,310,104; Feb. 2.
McMahan, Roy F., Louisville, Ky. Metal bound box. 2,309,655; Feb. 2.
Melzak, Charles. (See Schmidling, Gilbert T., assignor.)
Messing, Joseph A., assignor to Bulldog Electric Products Company, Detroit, Mich. Connector. 2,309,972; Feb. 2.
Metzner, Albert W., assignor to The Standard Register Company, Dayton, Ohio. Pin wheel feed. 2,309,656; Feb. 2.
Metzner, Loyde H. (See Weinstein, D. H., and Metzner.)
Meyer, Frank A. (See Gabalis, J. J., and Meyer.)
Michel, Philip C., Schenectady, N. Y., assignor to General Electric Company. Counter circuit. 2,310,105; Feb. 2.
Middlediteh, Livingston, Beverly Hills, Calif. Recording system. 2,309,857; Feb. 2.
Miescher, Karl, Riehen, and A. Wettstein, Basel, Switzerland, assignors, by mesne assignments, to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Derivatives of the cyclopentano-polyhydrophenanthrene series and process of making same. 2,310,150; Feb. 2.
Milcor Steel Company. (See Siebenlist, Anthony G., assignor.)
Miller, Albert H., Bayside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,310,034; Feb. 2.
Miller, Carl F., Corning, N. Y., assignor to Sylvania Electric Products Inc. Electron discharge device. 2,309,973; Feb. 2.
Miller, Frank P., Meadville, Pa. Rotary cutter. 2,309,657; Feb. 2.
Miller, Jesse G., Tiffin, Ohio. Massaging apparatus. 2,310,106; Feb. 2.
Miller, Malcolm. (See Mojonnier, A. B., and Miller.)
Miller Printing Machinery Co. (See Neuhart, Andrew, assignor.)
Miller Printing Machinery Co. (See Saul, August A., assignor.)
Miller, Ralph L., Verona, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Carrier wave signaling. 2,309,705; Feb. 2.
Miller, Robert M., assignor to Fox Products Company, Philadelphia, Pa. Vibration motor. 2,310,107; Feb. 2.
Miller, Thomas S., assignor to Water & Sewer Equipment Corporation, Rome, N. Y. Packing device. 2,309,658; Feb. 2.
Miller, Thomas S., assignor to Water & Sewer Equipment Corporation, Rome, N. Y. Packing device. 2,309,974; Feb. 2.
Millie Patent Holding Co. (See Allatt, Mervin, assignor.)
Minerals Beneficiation Incorporated. (See Cameron, Shelton T., assignor.)
Mingus, Laura E., Des Moines, Iowa. Safety belt. 2,310,035; Feb. 2.
Mitchell, Hugh E., Slate Spring, Miss. Stoker apparatus for brooder heaters. 2,309,858; Feb. 2.
Moberly, Lawrence E., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Carbon brush construction. 2,310,108; Feb. 2.
Mojonnier, Albert B., Park Ridge, and M. Miller, Chicago, Ill., assignors to Mojonnier Bros Co. Filling vessels. 2,309,859; Feb. 2.
Mojonnier Bros Co. (See Mojonnier, A. B., and Miller, assignors.)
Moloney, Raymond T. (See Hooker, D. E., Breitenstein, and Nelson, assignors.)
Moloney, Raymond T. (See Hooker, D. E., and Nicolaus, assignors.)
Monarch Marking System Company. (See Kohnle, Frederick, assignor.)
Montague, John T., Westport, Conn., assignor, by mesne assignments, to Linen Guild, Inc., New York, N. Y. Continuous fabric printing machine. 2,309,914; Feb. 2.
Morse, Ted B. (See Schmidt, W. B., Morse, and Rieves.)
Moseley, John M., Richmond, and R. P. Hudson, Hanover County, Va., assignors to The American Tobacco Company, New York, N. Y. Treatment of tobacco. 2,309,975; Feb. 2.
Motte, Jean, Corbas, and J. Pomot, Lyon, France; vested in the Alien Property Custodian. Protection of insecticides. 2,309,860; Feb. 2.
Moxey, Fred W., Aurora, assignor to American Molded Products Co., Chicago, Ill. Bumper switch for ball rolling games. 2,310,163; Feb. 2.
Muehter, Manfred W., Nutley, assignor to American District Telegraph Company, Inc., Jersey City, N. J. Unit transmitter printing and signaling system. 2,309,660; Feb. 2.
Mueller, Fred E., Chicago, Ill. Temperature control system for internal combustion engines. 2,309,976; Feb. 2.
Mulock, Wilson M., Chatham, Mass. Apparatus for controlling heating systems. 2,309,915; Feb. 2.
Munschauer, Frederick E., assignor to Niagara Machine and Tool Works, Buffalo, N. Y. Back gauge for shears. 2,310,182; Feb. 2.
Mureau, Charles A., Los Angeles, Calif. Cosmetic applicator. 2,309,861; Feb. 2.
Muros, Joseph, Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Magazine for safety razors. 2,309,780; Feb. 2.
Murphy, Howard J., Greenwood, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Rotary operative fastener device and installation of the same. 2,309,737; Feb. 2.
Muther, Lorenz F., Newton Center, Mass. Slide fastener stop attaching machine. 2,310,033; Feb. 2.
Myers, Thomas G., assignor to U. S. Electrical Motors, Inc., Los Angeles, Calif. Sealed submersible structure. 2,309,707; Feb. 2.
Nagy, Daniel E., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Process of preparing guanamines. 2,309,661; Feb. 2.
Napier, D., & Son Limited. (See Ramsay, Frank R. F., assignor.)
National Equipment Company. (See Bausman, Alonzo L.)
National Lock Co. (See North, Edwin W., assignor.)
National Vendors, Inc. (See Fry, Benjamin W., assignor.)
Nell, Frederic, assignor to Landis Machine Company, Waynesboro, Pa. Thread cutting mechanism. 2,309,862; Feb. 2.
Nelson, Nels A. (See Hooker, D. E., Breitenstein, and Nelson.)
Neu, Richard, Dessau in Anhalt, Germany, assignor, by mesne assignments, to "Unichem" Chemikalien Handels A.-G., Zurich, Switzerland. Production of capillary active media. 2,310,109; Feb. 2.
Neuhart, Andrew, assignor to Miller Printing Machinery Co., Pittsburgh, Pa. Sheet handling apparatus. 2,309,662; Feb. 2.
Newsom, Kitchener K., San Francisco, Calif. Packing structure for eggs. 2,310,110; Feb. 2.
Niagara Machine and Tool Works. (See Munschauer, Frederick E., assignor.)
Nicolaus, Frank H. (See Hooker, D. E., and Nicolaus.)
Norden, Elwood. (See Lyman, J., and Norden.)
Nordlander, Birger W., Schenectady, N. Y., assignor to General Electric Company. Determining the porosity of materials. 2,310,111; Feb. 2.
North and Judd Manufacturing Company. (See Dearle, Denis A., assignor.)
North, Edwin W., assignor to National Lock Co., Rockford, Ill. Latching device. 2,309,863; Feb. 2.
O'Brien, Jeremiah W., assignor to United Engineering and Foundry Company, Pittsburgh, Pa. Belt wrapper. 2,309,781; Feb. 2.
O'Connell, Michael E. (See Diserens, P., Karig, and O'Connell.)
Ohio Crankshaft Company, The. (See Denneen, F. S., and Dunn, assignors.)
Oldham, Wilbur N., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparing substituted guanamines. 2,309,663; Feb. 2.
Oldham, Wilbur N., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparing guanamines. 2,309,664; Feb. 2.
Olpin, Henry C., C. S. Argyle, and F. Brown, Spondon, Near Derby, England, assignors to Celanese Corporation of America. Manufacture of anthraquinone derivatives. 2,309,708; Feb. 2.

Onondaga Pottery Company. (See Zalewski, W. F., and Woodcock, assignors.)
Orr, Fingal C., Glendale, Calif. Rotary sprinkler. 2,309,782; Feb. 2.
Osborne, William B. (See Carnagua, H. E., and Osborne.)
Oswald, Leslie H. (See Prosser, T. W., Wahlbeck, Oswald, and Klienfeld.)
Owens, Jesse C., Los Angeles, Calif. Carpet and floor covering turntable and the like. 2,310,036; Feb. 2.
Pacific Mills. (See Burdett, Roy E., assignor.)
Pacific Pump Works. (See Hall, Jesse E., assignor.)
Paille, Eugene, Los Angeles, assignor to General Controls Co., Glendale, Calif. Manual reset valve. 2,309,709; Feb. 2.
Palmer, Charles E., Erie, Pa. Agitating means and method for filter beds. 2,309,916; Feb. 2.
Palmer, Charles E., Erie, Pa. Filter agitating means and method. 2,309,917; Feb. 2.
Palmer, Harry L., Schenectady, and G. W. Garman, Glenville, N. Y., assignors to General Electric Company. Electric control circuit. 2,310,112; Feb. 2.
Paramount Textile Machinery Co. (See Prosser, T. W., Wahlbeck, Oswald, and Kleinfeld, assignors.)
Park, Tracy S., Houston, Tex. Cleat for use on athletic shoes. 2,309,783; Feb. 2.
Parke, Peter, assignor to The Pullman Company, Chicago, Ill. Rail car. 2,309,665; Feb. 2.
Parker, Arthur L., Cleveland, Ohio. Forming standard blanks and a variety of finished units therefrom. 2,309,666; Feb. 2.
Patterson, Edward H., Jr., Troy, N. Y. Golf glove. 2,309,710; Feb. 2.
Patterson, Herbert F., assignor to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,309,864; Feb. 2.
Pearson, Oscar A., Oak Park, assignor to Jefferson Electric Company, Bellwood, Ill. Control circuit. 2,309,711; Feb. 2.
Pearson, Paul E., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Machine for forming and affixing center spots to crown caps. 2,309,667; Feb. 2.
Perey Manufacturing Company. (See Gersbach, Herbert A., assignor.)
Peris, Walter. (See Dietrich, H., Johannessohn, Rabald, and Peris.)
Peron, Anthony, New York, N. Y. Broiler. 2,309,784; Feb. 2.
Peroni, John H., Freeport, N. Y. Artificial tree. 2,309,977; Feb. 2.
Peterson, Pontus, Garden City, N. Y., assignor to American Machine & Foundry Company. Stemming machine. 2,309,738; Feb. 2.
Petrolite Corporation. (See Claytor, Edwin E., assignor.)
Philadelphia Quartz Company. (See Baker, C. L., and Dedrick, assignors.)
Philbrick, Frank H., Evanston, Ill. Apparatus for handling ballast in railway road-beds. 2,309,712; Feb. 2.
Phillips, Earl E., Schuylerville, N. Y. Electric circuit service head. 2,309,920; Feb. 2.
Phillips Petroleum Company. (See Cantrell, Cyrus D., Jr., assignor.)
Phillips Petroleum Company. (See Crites, Wilbur J., assignor.)
Phillips Petroleum Company. (See MacSporran, Charles, assignor.)
Phillips Petroleum Company. (See Rugh, Kenneth W., assignor.)
Phillips Petroleum Company. (See Schulze, W. A., and Short, assignors.)
Pittsburgh Plate Glass Company. (See Devol, M. L., Crist, and Hazen, assignors.)
Pizzarello, Roy A. (See Gessler, A. E., and Pizzarello.)
Plochman, Carl M., Chicago, Ill. Food container. 2,310,113; Feb. 2.
Pneu-Hydro Road Machinery Co. (See Boerma, Henry E., assignor.)
Polymerization Process Corporation, The. (See Layng, Edwin T., assignor.)
Pomot, Jean. (See Motte, J., and Pomot.)
Poole, Frederick A., Barrington, assignor to Production Instrument Company, Chicago, Ill. Counting device. 2,310,114; Feb. 2.
Poorman, John E., Philadelphia, Pa. Grinding machine. 2,309,668; Feb. 2.
Poorman, John E., Philadelphia, Pa. Grinding machine. 2,309,669; Feb. 2.
Pope, Demetrios K., Gary, Ind. Shaft straightener. 2,310,151; Feb. 2.
Popoff, Ivan P., Lake, Wis. Variable speed planetary transmission for automobiles. 2,310,115; Feb. 2.
Porter, Howard C., and A. P. Schulz, assignors to Bendix Home Appliances, Inc., South Bend, Ind. Closure construction. 2,309,785; Feb. 2.
Porter, Howard C., assignor to Bendix Home Appliances, Inc., South Bend, Ind. Cleaning machine. 2,309,786; Feb. 2.
Powell, Sheppard T. (See Axelrad, B. A., and Powell.)
Pratt, Carl D., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Propellent fuel assembly. 2,309,978; Feb. 2.
Prendergast, James J., Bay City, R. A. Jones, Midland, and W. N. Guillett, Essexville, assignors to The Dow Chemical Company, Midland, Mich. Electrode holder. 2,310,164; Feb. 2.
Pribil, Maxwell K. (See Harroun, R. W., and Pribil.)
Pribil, Severina, et al. (See Harroun, R. W., and (Pribil, assignor).)
Pritchard, Howard A., Hiram, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio. Sheet feeder. 2,309,979; Feb. 2.
Proctor & Schwartz, Inc. (See Stevenson, Robert O., assignor.)
Production Instrument Company. (See Poole, Frederick A., assignor.)
Prosser, Thomas W., Riverside, J. H. Wahlbeck, Kankakee, L. H. Oswald and L. S. Kleinfeld, assignors to Paramount Textile Machinery Co., Chicago, Ill. Machine for setting the shape of textile articles. 2,309,659; Feb. 2.
Puett Electrical Starting Gate Corporation. (See Harris, N. C., and Whann, assignors.)
Pullman Company, The. (See Parke, Peter, assignor.)
Pure Oil Company, The. (See Chittick, M. B., and McKinney, assignors.)
Pure Oil Company, The. (See Thacker, Carlisle M., assignor.)
Quaker Oats Company. (See Gustavson, Elmer G., assignor.)
Quaker Oats Company, The. (See Trimble, Floyd, assignor.)
Quintin, Roger A., and E. W. Graham, Stockton, Calif. Dump truck. 2,309,787; Feb. 2.
Rabald, Erich. (See Dietrich, H., Johannessohn, Rabald, and Peris.)
Rabedew, Newton J., Oroville, Calif. Pocket ash tray. 2,309,918; Feb. 2.
Radio Corporation of America. (See Anderson, Warren A., assignor.)
Radio Corporation of America. (See Bedford, Alda V., assignor.)
Radio Corporation of America. (See Hansell, Clarence W., assignor.)
Radio Corporation of America. (See Gottier, Thomas L., assignor.)
Radio Corporation of America. (See Ramberg, Edward G., assignor.)
Radio Corporation of America. (See Schade, Otto H., assignor.)
Radio Corporation of America. (See Smith, James E., assignor.)
Radtke, Adelbert C., Oak Park, and D. T. Fernandez, assignors to Sears, Roebuck and Company, Chicago, Ill. Reed for musical instruments. 2,309,714; Feb. 2.
Raft, George, Sydney, New South Wales, Australia. Switching mechanism for multiple way adapters. 2,309,921; Feb. 2.
Railway and Industrial Engineering Company. (See Koppitz, C. G., and Kast, assignors.)
Ramberg, Edward G., Haddon Heights, N. J., assignor to Radio Corporation of America. Reflective projection system. 2,309,788; Feb. 2.
Ramsay, Frank R. F., assignor to D. Napier & Son Limited, London, England. Sparking plug. 2,309,980; Feb. 2.
Randall, Chester J., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Apparatus for coating sheet material. 2,309,981; Feb. 2.
Rare Chemicals, Inc. (See Dietrich, H., Johannessohn, Rabald, and Peris, assignors.)
Ratcliff, Peary F., Shreveport, La. Gas burner. 2,310,116; Feb. 2.
Ratkowski, Thomas A., Chicago Heights, Ill., assignor to The American Brake Shoe and Foundry Company, New York, N. Y. Hammer for centrifugal devices and the like. 2,309,713; Feb. 2.
Rayner, George A., Smithville, Tex. Well swab. 2,309,922; Feb. 2.
Raytheon Manufacturing Company. (See Dawson, John W., assignor.)
Raytheon Production Corporation. (See Gray, Robert, assignor.)
Reach, Milton B., Springfield, Mass. Molding articles. 2,309,865; Feb. 2.
Reconstruction Finance Corporation. (See McLaren, Peter J., assignor.)
Reed, Donald L. Silver Spring, Md., assignor to Henry A. Wallace, Secretary of Agriculture of the United States of America and his successors in office. Production of chlorine. 2,309,919; Feb. 2.
Reed, John E., Bakersfield, Calif. Safety joint bumper sub. 2,309,866; Feb. 2.
Reeves, Donald H., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,310,117; Feb. 2.
Reichstein, Tadeus, Basel, Switzerland, assignor to the firm Roche-Organon, Inc., Nutley, N. J. Substituted derivatives of saturated or unsaturated pregnanediones. 2,309,867; Feb. 2.
Reinhardt, John P., Brooklyn, N. Y. Humidifier cabinet. 2,310,118; Feb. 2.
Reinhardt, John P., Brooklyn, N. Y. Extensible ladder. 2,310,119; Feb. 2.
Reintjes, George P., Kansas City, Mo. Furnace checkerwork. 2,309,789; Feb. 2.
Reno, Esther W., New York, N. Y. Doll. 2,310,037; Feb. 2.

Reynolds, William B., Elmhurst, Long Island, and S. A. Scully, Yonkers, assignors to Interchemical Corporation, New York, N. Y. Textile printing with emulsion containing dyestuff reactant. 2,309,982; Feb. 2.
Riddle, William J., Pittsburgh, Pa., assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Multiple cylinder press. 2,309,983; Feb. 2.
Rieves, Marshal H. (See Schmidt, W. B., Morse, and Rieves.)
Röber, Consantin F., and A. Böttger, Dresden, Germany; vested in the Alien Property Custodian. Cigar and filler transfer device. 2,310,120; Feb. 2.
Roberts, Joseph K., Flossmoor, and M. T. Carpenter, assignors to Standard Oil Company, Chicago, Ill. Cracking hydrocarbon oil. 2,310,183; Feb. 2.
Robertson, Isaac W., Los Angeles, Calif. Catamenial sac. 2,309,868; Feb. 2.
Robertson, Milton S., Campbell, Calif. Apparatus for separating finely divided materials. 2,309,923; Feb. 2.
Roblin, Richard O., Jr., Old Greenwich, and J. P. English, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. 2-aminopyramidines. 2,309,739; Feb. 2.
Roche-Organon, Inc. (See Reichstein, Tadeus, assignor.)
Rogers, Roy, Fowlerton, Ind. Overhead door operating means. 2,309,984; Feb. 2.
Ronning, Adolph, Minneapolis, Minn. Power saw. 2,310,152; Feb. 2.
Root, Ralph E., Bera, assignor to C. E. Walling, Cleveland, Ohio. Universal radius truing fixture for grinding machines. 2,309,924; Feb. 2.
Rosenfarb, Albert D., Winthrop, Mass. Machine for cutting flexible sheet material. 2,310,153; Feb. 2.
Ross, Raymond W., assignor to Leeds and Northrup Company, Philadelphia, Pa. Integrating apparatus. 2,309,790; Feb. 2.
Roy, Vernon R. (See Blazek, J. Y., Sears, and Roy.)
Rudow, Charles M., Elmhurst, Ill. Marine bulk,cargo unloading boom. 2,309,715; Feb. 2.
Rugh, Kenneth W., Detroit, Mich., assignor to Phillips Petroleum Company. Self-service system for storage and utilization of fuel gases. 2,309,869; Feb. 2.
Ruist, John T., Goteborg, Sweden, assignor to SKF Industries, Inc., Philadelphia, Pa. Treadle roll for looms. 2,309,985; Feb. 2.
Rule, Bruce H. (See Irwin, E. M., Rule, and Lewis.)
Rust, John B., Verona, N. J., assignor to Ellis-Foster Company. Sulphamic acid compounds and making same. 2,310,038; Feb. 2.
Rutherford, John T. (See Farrington, B. B., Clayton, and Rutherford.)
Ruthman, Edward J., Cincinnati, Ohio. Motor housing. 2,309,670; Feb. 2.
Ruthruff, Robert F., Chicago, Ill. Motor fuel and preparation thereof. 2,309,986; Feb. 2.
Ruthruff, Robert F., Chicago, Ill. Motor fuel and preparation thereof. 2,309,987; Feb. 2.
Ryan, Lonnie W., Westfield, N. J., and W. J. Cauwenberg, Piney River, Va., assignors to Inter-Chemical Corporation, New York, N. Y. Treating titanium sulphate solutions. 2,309,988; Feb. 2.
SKF Industries, Inc. (See Ruist, John T., assignor.)
S. & S. Corrugated Paper Machinery Company. (See Jacobson, Charles, assignor.)
Safety Car Heating and Lighting Company, The. (See Schepmoes, Lindsley, assignor.)
Salomon, Arnold, Oss, Netherlands; vested in the Alien Property Custodian. Derivatives of p-aminobenzenesulphonamide. 2,309,870; Feb. 2.
Saltzman, Bernard E., Lawrenceburg, Ind. Apparatus for cooking grain mash. 2,309,989; Feb. 2.
Sanders, Clyde S., assignor to Standard Oil and Gas Company, Tulsa, Okla. Method and apparatus for cementing wells. 2,309,791; Feb. 2.
Saul, August A., assignor to Miller Printing Machinery Co., Pittsburgh, Pa. Material handling apparatus. 2,309,671; Feb. 2.
Savi, Jean J., New York, N. Y. Brush hook. 2,309,990; Feb. 2.
Schade, Otto H., West Caldwell, N. J., assignor to Radio Corporation of America. Cathode ray beam deflecting circuit. 2,309,672; Feb. 2.
Schectman-Abrams, Vera. (See Abrams, Maurice, assignor.)
Schepmoes, Lindsley, New Haven, Conn., assignor to The Safety Car Heating and Lighting Company, Inc. Lighting fixture. 2,309,792; Feb. 2.
Scherer, Paul A., San Francisco, Calif. Apparatus for the transfer of sensible and latent heat. 2,310,121; Feb. 2.
Schlear, William M., Orwigsburg, Pa., assignor, by mesne assignments, to H. G. Lumbard, Auburn, Maine. Innersole for shoes. 2,309,673; Feb. 2.
Schlenker, Vesper A., New York, N. Y. Acoustic screen. 2,310,154; Feb. 2.
Schloff, Meyer E., assignor of one-half to H. J. Bobbe, Chicago, Ill. Vending machine. 2,309,674; Feb. 2.
Schlomann, Alfred F., New York, and A. Schwarz, Rochester, N. Y.; said Schwarz assignor to said Schlomann. Management instrument for business. 2,309,675; Feb. 2.
Schmidling, Gilbert T., New York, assignor of one-half to C. Melzak, Yonkers, N. Y. Fluorescent lamp. 2,309,676; Feb. 2.
Schmidt, William B., T. B. Morse, and M. H. Rieves, Chicago, Ill. Interlocking indicating and control device for amusement park rides. 2,310,039; Feb. 2.
Schneider, Julius, Omaha, Nebr. Belt attaching means for garments. 2,310,040; Feb. 2.
Schopmeyer, Herman H., Hammond, Ind., and G. V. Sharps, Chicago, Ill., assignors to American Maize-Products Company. Separating oil from the corn gluten. 2,310,180; Feb. 2.
Schotthoefer, Joseph G., Detroit, Mich. Ventilated water closet or toilet. 2,309,925; Feb. 2.
Schulz, Arthur P. (See Porter, H. C., and Schulz.)
Schulze, Walter A., and G. H. Short, Bartlesville, Okla., assignors to Phillips Petroleum Company. Treatment of hydrocarbon fluids. 2,309,871; Feb. 2.
Schwarz, Alfred. (See Schlomann, A. F., and Schwarz.)
Schwartz, Nathan R., New York, N. Y. Universally adjustable light socket. 2,309,991; Feb. 2.
Scott, Paul E., Chicago, Ill. Self-centering device for sewer pipes. 2,310,122; Feb. 2.
Scott, Thomas R., and J. K. Webb, London, England, assignors to International Standard Electric Corporation. Electric power cable. 2,309,992; Feb. 2.
Scovill Manufacturing Company. (See Wolff, Jerome G., assignor.)
Scovill Manufacturing Company. (See Wolff, J. G., Huelster, and Fagan, assignors.)
Scully, Sylvester A. (See Reynolds, W. B., and Scully.)
Sears, Gilbert E. (See Blazek, J. Y., Sears, and Roy.)
Sears, Roebuck and Company. (See Radtke, A. C., and Fernandez, assignors.)
Secretary of Agriculture of the United States of America, H. A. Wallace, and his successors in office. (See Reed, Donald L., assignor.)
Sedore, James, and A. A. Smith, Grande Prairie, Alberta, Canada. Propelling attachment. 2,309,973; Feb. 2.
Seeger, Edwin W., Wauwatosa, Wis., and C. Stansbury, Chevy Chase, Md., assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Controller for induction motors. 2,309,794; Feb. 2.
Segal, Samuel, Brooklyn, N. Y. Lock picking gun. 2,309,677; Feb. 2.
Seguy, Jean D., Washington, D. C., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon oils. 2,310,123; Feb. 2.
Seifer, Judah I., New York, N. Y. Garment and making same. 2,309,716; Feb. 2.
Shaffer, Donald U., Brea, and E. C. Hamm, Norwalk, assignors to Shaffer Tool Works, Brea, Calif. Hydraulic trip tool jar. 2,309,872; Feb. 2.
Shaffer Tool Works. (See Shaffer, D. U., and Hamm, assignors.)
Sharps, Gordon V. (See Schopmeyer, H. H., and Sharps.)
Shartle, Robert A., Rockford, Ill., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,310,124; Feb. 2.
Shearer, Franklin P. (See Harrington, R. J., and Shearer.)
Sheldon, Albia L. (See Browne, W P., and Browne.)
Shell Development Company. (See McAllister, Sumner H., and Haury, assignors.)
Shelton, Andrew B., Columbus, Ga. Loom temple. 2,310,125; Feb. 2.
Sherrill, Burl E., Peru, Ind. Compass structure. 2,310,041; Feb. 2.
Short, Graham H. (See Schulze, W. A., and Short.)
Siebenlist, Anthony G., assignor to Milcor Steel Company, Milwaukee, Wis. Ventilator. 2,309,717; Feb. 2.
Siegel, Bertram L., San Francisco, Calif. Method and device for handling stacks of resilient articles. 2,309,795; Feb. 2.
Simpson, Glenn W. (See Cowles, H. A., and Simpson.)
Singer Manufacturing Company, The. (See Hale, Arthur N., assignor.)
Singer Manufacturing Company, The. (See Way, Donald D., assignor.)
Skagerberg, Rutcher, Penn Wynne, assignor to The Brown Instrument Company, Philadelphia, Pa. Drier control. 2,309,993; Feb. 2.
Skeats, Wilfred F., Lansdowne, Pa., assignor to General Electric Company. High frequency current shunt. 2,310,126; Feb. 2.
Skinner, Clifton R., San Francisco, Calif. Ribbon oscillograph. 2,309,994; Feb. 2.
Skoglund, Bert J. (See Doering, Charles and H. H., Skoglund, and Anderson.)
Slomovici, Isaac, Montreal, Quebec, Canada. Interchangeably mounting artificial teeth. 2,310,155; Feb. 2.
Smith, Alexander A. (See Sedore, J., and Smith.)
Smith, Frank M., assignor to Stout Engineering Laboratories, Inc., Dearborn, Mich. Semicircular window and screen. 2,310,127; Feb. 2.
Smith, Frederick A., Waukegan, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Evaporator. 2,310,042; Feb. 2.
Smith, George S., Oakland, Calif. Oxychloride coating. 2,310,128; Feb. 2.
Smith, James E., Brooklyn, N. Y., assignor to Radio Corporation of America. Frequency modulation system. 2,309,678; Feb. 2.
Smith, Silmon L., et al. (See Starks, Hugh, assignor.)
Smith, Theodore C., Philadelphia, Pa. Signaling device for closed tanks. 2,309,804; Feb. 2.

Snell, Samuel A., assignor to T. F. Beaman, Jackson, Mich., as trustee. Steering column brake actuator. 2,309,796; Feb. 2.
Society of Chemical Industry in Basle. (See Landolt, Albert, assignor.)
Somers, Richard M., West Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Electric discharge systems. 2,309,874; Feb. 2.
Southern Wood Preserving Company. (See Harvey, Jacquelin E., Jr., assignor.)
Speed Products Company. (See Crosby, Stephen A., assignor.)
Speedry Gravure Corporation. (See Kott, Hermann, assignor.)
Sperry Gyroscope Company. (See Lyman, J., and Norden, assignors.)
Spielman, Samuel. (See Gold, A., and Spielman.)
Spitz, Henry. (See Bolten, J., and Spitz.)
Standard Oil and Gas Company. (See Sanders, Clyde S., assignor.)
Standard Oil Company. (See Roberts, J. K., and Carpenter, assignors.)
Standard Oil Company of California. (See Farrington, B. B., Clayton and Rutherford, assignors.)
Standard Register Company, The. (See Metzner, Albert W., assignor.)
Stansbury, Carroll. (See Seeger, E. W., and Stansbury.)
Starks, Hugh, assignor of one-fifth to S. L. Smith and one-fifth to C. M. Holmes, Grand Junction, Colo. Rising support. 2,310,043; Feb. 2.
Steiner, Oscar, Irondequoit, assignor to The Folmer Graflex Corporation, Rochester, N. Y. Photographic flashlight equipment. 2,310,165; Feb. 2.
Stevenson, Robert O., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa. Thermostatically controlled cooking apparatus. 2,310,044; Feb. 2.
Stickel, Carl A., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,309,797; Feb. 2.
Stoekle, Erwin R., deceased; L. Stoekle, executrix, assignor to Globe-Union Inc., Milwaukee, Wis. Variable resistance. 2,309,798; Feb. 2.
Stoekle, Lillian, executrix. (See Stoekle, Erwin R.)
Stokes and Smith Company. (See First, George B., assignor.)
Stout Engineering Laboratories, Inc. (See Smith, Frank M., assignor.)
Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Self-interrupting clutch. 2,309,995; Feb. 2.
Streeter, Carl H. (See Jones, B. M., and Streeter.)
Sullivan Machinery Company. (See Haddock, John W., assignor.)
Sullivan Machinery Company. (See Vanderzee, Harry H., assignor.)
Sulzer Freres, S. A. (See Volks, Herbert, assignor.)
Sun Oil Company. (See Thayer, Clarence H., assignor.)
Sun Tube Corporation, The. (See Fridén, John H., assignor.)
Svenska Kassaregisteraktiebolaget. (See Högfors, Hans F. B., assignor.)
Swain, Robert C. (See Thurston, J. T., and Swain.)
Swallow, Joseph L. (See Canon, H. B., and Swallow.)
Sylvania Electric Products Inc. (See Miller, Carl F., assignor.)
Sylvester, Kimmel A., Skokie, assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,310,129; Feb. 2.
Tanzi, Mario, Chicago, Ill. Cigarette dispenser. 2,309,799; Feb. 2.
Teletype Corporation. (See Sylvester, Kimmel A., assignor.)
Teletype Corporation. (See Zenner, Walter J., assignor.)
Thacker, Carlisle M., Toledo, Ohio, assignor to The Pure Oil Company, Chicago, Ill. Preparing high boiling hydrocarbons. 2,309,718; Feb. 2.
Thayer, Clarence H., Wallingford, assignor to Sun Oil Company, Philadelphia, Pa. Process and apparatus for regulating the temperature of catalytic masses. 2,309,996; Feb. 2.
Thieman, William B., Albert City, Iowa. Stock feeder. 2,309,997; Feb. 2.
Thompson, Theodore F., Des Moines, Iowa. Amphibian. 2,309,875; Feb. 2.
Thumim, Carl, and E. J. Frank, Yeadon, and A. C. Boisseau, Lansdowne, Pa., assignors to General Electric Company. Valve system. 2,310,130; Feb. 2.
Thurston, Jack T., Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparing guanamines. 2,309,679; Feb. 2.
Thurston, Jack T., Cos Cob, and D. W. Kaiser, Springdale, Conn., assignors to American Cyanamid Company, New York, N. Y. Hydroxy-substituted guanamines. 2,309,680; Feb. 2.
Thurston, Jack T., Cos Cob, and M. H. Bradley, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Beta-alkoxyguanamines. 2,309,681; Feb. 2.
Thurston, Jack T., Stamford, and R. C. Swain, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y. Guanylurea salts. 2,310,045; Feb. 2.
Tiffany, Daniel W., Helena, Mont. Light for license plates. 2,309,805; Feb. 2.
Timken Roller Bearing Company, The. (See Brotherton, Clifford A., assignor.)
Tindall, John B., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Production of monohalonitromethanes. 2,309,806; Feb. 2.
Todd, Gibbon H., Charlotte, N. C. Collapsible music display stand. 2,309,876; Feb. 2.
Töfflinger, Karl, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Winding for single-phase series motors. 2,310,131; Feb. 2.
Trico Products Corporation. (See Horton, Erwin C., assignor.)
Trimble, Floyd, assignor to The Quaker Oats Company, Chicago, Ill. Refining sulphate turpentine and tall oil. 2,310,046; Feb. 2.
Trotter, John C., assignor to Bell Aircraft Corporation, Buffalo, N. Y. Attachment for machine gun cradles. 2,309,807; Feb. 2.
Trotter, John C., Williamsville, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Twin gun mount. 2,309,808; Feb. 2.
Tucker, Warren R., Dayton, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del. Turret control. 2,309,998; Feb. 2.
Tusting, Thomas R. (See Gibbs, G. M., and Tusting.)
Uhlemann Optical Co. of Illinois. (See Uhlemann, William R. and R. H., assignors.)
Uhlemann, Richard H. (See Uhlemann, William R. and R. H.)
Uhlemann, William R., Evanston, and R. H. Uhlemann, Antioch, assignors to Uhlemann Optical Co. of Illinois, Chicago, Ill. Lens mounting. 2,310,133; Feb. 2.
Uline, Walter C., Nappanee, Ind. Chair. 2,309,800; Feb. 2.
Underdahl, Leif, Portland, Oreg. Material for construction of artificial dentures and producing the same. 2,310,132; Feb. 2.
"Unichem" Chemikalien Handels A.-G. (See Götte, Ernst, assignor.)
"Unichem" Chemikalien Handels A.-G. (See Neu, Richard, assignor.)
Union Carbide and Carbon Corporation. (See Kehl, Robert J., assignor.)
Union Switch & Signal Company, The. (See Baughman, George W., assignor.)
Union Switch & Signal Company, The. (See Bone, Herbert L., assignor.)
Union Switch & Signal Company, The. (See Bossart, Paul N., assignor.)
Union Switch & Signal Company, The. (See Dodd, Arthur E., assignor.)
United-Carr Fastener Corporation. (See Johnson, Frank E., assignor.)
United-Carr Fastener Corporation. (See Jones, Walter I., assignor.)
United-Carr Fastener Corporation. (See Murphy, Howard J., assignor.)
United-Carr Fastener Corporation. (See Woodward, Clement A., assignor.)
United Engineering and Foundry Company. (See O'Brien, Jeremiah W., assignor.)
United Shoe Machinery Corporation. (See Campbell, Rouel R., assignor.)
U. S. Electrical Motors, Inc. (See Myers, Thomas G., assignor.)
United States Rubber Company. (See Bennett, Thomas A., assignor.)
United States Rubber Company. (See Chittum, J. P., and Hulse, assignors.)
United States Rubber Company. (See Randall, Chester J., assignor.)
Universal Oil Products Company. (See Seguy, Jean D., assignor.)
Utz, Chester C., Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich. Vehicle suspension. 2,309,811; Feb. 2.
Utz, Chester C., Magnolia, Redford Station, assignor to Chrysler Corporation, Highland Park, Mich. Vehicle suspension. 2,309,812; Feb. 2.
Vaill, John L., Middlebury, Conn., assignor to The American Brass Company. Flexible metal hose. 2,309,719; Feb. 2.
Vallier, Wilfred F., Fort Smith, Ark. Rotary valve engine. 2,310,134; Feb. 2.
Valve Pilot Corporation. (See Welden, Fay D., assignor.)
Van Cleave, Edwin E., Chicago, Ill. Railway car hand brake. 2,310,135; Feb. 2.
Van Daam, Gerrit, Buffalo, N. Y. Heating wings of airplanes. 2,309,682; Feb. 2.
Van der Clute, William W., Elizabeth, N. J. Clothespin. 2,310,156; Feb. 2.
Vanderzee, Harry H., Michigan City, Ind., assignor to Sullivan Machinery Company. Rotary drilling apparatus. 2,309,999; Feb. 2.
Vanderzee, Harry H., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling apparatus. 2,310,000; Feb. 2.
Vane, Howard H., Cincinnati, Ohio. Geometrical instrument. 2,309,809; Feb. 2.
Van Geel, Willem C., H. Emmens, and L. A. L. Esserling, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Making blocking layer electrode systems. 2,310,002; Feb. 2.
Van Wingen, Neil P., assignor to American Box Board Company, Grand Rapids, Mich. Container. 2,310,136; Feb. 2.
Veeder, Nicholas P., St. Louis, Mo., assignor to Granite City Steel Company, Inc., Granite City, Ill. Galvanized steel and making same. 2,309,801; Feb. 2.

Vickers Incorporated. (See Herman, Kenneth R., assignor.)
Vickers Incorporated. (See Losey, C. V., and Esch, assignors.)
Vickers Incorporated. (See Shartle, Robert A., assignor.)
Vogel, Francis D., Columbus, Ohio. Vending machine magazine. 2,309,802; Feb. 2.
Volks, Herbert, New York, N. Y., assignor to Sulzer Freres, S. A., Winterthur, Switzerland. Grill and chafing dish. 2,301,157; Feb. 2.
Voorhies, Carl, Detroit, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Internal combustion engine. 2,309,740; Feb. 2.
Wadsworth Electric Manufacturing Company, The. (See Landmeier, Edwin W., assignor.)
Wahlbeck, John H. (See Prosser, T. W., Wahlbeck, Oswald, and Kleinfeld.)
Wahlmark, Gunnar A., Rockford, Ill. Pumping unit. 2,309,683; Feb. 2.
Wahlmark, Gunnar A., Rockford, Ill. Pumping unit. 2,309,803; Feb. 2.
Waldeyer, Carl, San Francisco, Calif. Projection apparatus. 2,310,047; Feb. 2.
Wall, Elmo. (See Holton, Richard C., assignor.)
Wallin, Ernst H., Arvika, Sweden. Supporting frame for rucksacks and the like. 2,310,137; Feb. 2.
Walling, Clyde E. (See Root, Ralph E., assignor.)
Washburn, Herbert C., Detroit, Mich. Brooder. 2,309,720; Feb. 2.
Wassell, Helen E. (See Wilkes, B. G., and Wassell.)
Water & Sewer Equipment Corporation. (See Miller, Thomas S., assignor.)
Way, Donald D., Westfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Lighting device for portable electric tools. 2,310,166; Feb. 2.
Wayne Pump Company, The. (See Jauch, R. J., and Arnold, assignors.)
Webb, John K. (See Scott, T. R., and Webb.)
Weinstein, David H., Houston, Tex., and L. H. Metzner, Long Beach, assignors to Cooperative Development Co., Los Angeles, Calif. Device for determining inclination of well bores. 2,309,877; Feb. 2.
Welden, Fay D., Tuckahoe, assignor to Valve Pilot Corporation, New York, N. Y. Driving mechanism for valve cutoff indicators. 2,309,684; Feb. 2.
Well Surveys, Incorporated. (See Fearon, Robert E., assignor.)
Wells, Albert S., assignor to Wells-Gardner & Co., Chicago, Ill. Tuning mechanism for radio receiving sets. 2,310,003; Feb. 2.
Wells-Gardner & Co. (See Wells, Albert S., assignor.)
Wells-Gardner & Co., et al. (See Canon, H. B., and Swallow, assignors.)
Wells, William L. (See Lance, E. T., and Wells.)
West, Lawrence B., Chattanooga, Tenn. Method of and apparatus for treating material. 2,309,810; Feb. 2.
Westergaard, Sarah E. (See Kelly, Hugh W., assignor.)
Western Electric Company. (See Albersheim, Walter J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Austin, Bascum O., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bartholy, Frederick E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bastian, Arthur J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Baudino, Joseph E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bendez, Waldemar I., assignor.)
Westinghouse Electric & Manufacturing Company. (See Booth, J. D., and Bock, assignors.)
Westinghouse Electric & Manufacturing Company. (See Dailey, Hampton J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Douglas, Peyton W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fahnoe, Harold H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gabalis, J. J., and Meyer, assignors.)
Westinghouse Electric & Manufacturing Company. (See Harder, Edwin L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Knowles, D. D., and Haller, assignors.)
Westinghouse Electric & Manufacturing Company. (See Langguth, P. O., and Harder, assignors.)
Westinghouse Electric & Manufacturing Company. (See Lenehan, Bernard E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lessmann, Gerhard P., assignor.)
Westinghouse Electric & Manufacturing Company. (See May, John W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Moberly, Lawrence E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Töfflinger, Karl, assignor.)
Westinghouse Electric & Manufacturing Company. (See Whittaker, Charles C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wickerham, William R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Willby, Norman H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Woodman, Kenneth L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Zühlke, Marcel, assignor.)
Westwood, Edward L., assignor to Wheeling Steel Corporation, Wheeling, W. Va. Culvert. 2,309,685; Feb. 2.
Wettstein, Albert. (See Miescher, K., and Wettstein.)
Weyandt, Carl S., Homer City, Pa. Reciprocatory motor and control thereof. 2,310,185; Feb. 2.
Whann, Jesse P. (See Harris, N. C., and Whann.)
Wheeling Steel Corporation. (See Westwood, Edward L., assignor.)
Whelen, Myron S. (See Wuertz, A. J., and Whelen.)
Whiting, Edmund W., Chicago, Ill. Fuel tank. 2,309,813; Feb. 2.
Whittaker, Charles C., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical switching apparatus. 2,310,138; Feb. 2.
Wiberg, Oscar A., Finspong, Sweden. Elastic fluid turbine. 2,309,878; Feb. 2.
Wickerham, William R., Swissvale, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Synchronous motor control. 2,310,139; Feb. 2.
Wickstrom, Arvid, Minneapolis, Minn. Fastener. 2,309,721; Feb. 2.
Widmer, Gustave, and W. Fisch, Basel, Switzerland, assignors, by mesne assignments, to Ciba Products Corporation, Dover, Del. Triazine-aldehyde condensation product. 2,310,004; Feb. 2.
Wiegand, Carl J. (See Holmes, J. Q., and Wiegand.)
Wilkes, Benjamin G., and H. E. Wassell, Pittsburgh, Pa., assignors to Carbide and Carbon Chemicals Corporation. Toilet preparation. 2,309,722; Feb. 2.
Wilkie, Robert J., assignor to Continental Machines, Incorporated, Minneapolis, Minn. Band saw package. 2,310,140; Feb. 2.
Willby, Norman H., Irwin, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Motor control system. 2,310,141; Feb. 2.
Willis, Floyd H., Los Angeles, Calif. Stereoscopic motion picture. 2,309,879; Feb. 2.
Wilson, Ernest S., Holly Oak, assignor to Hercules Powder Company, Wilmington, Del. Dry size and making. 2,310,005; Feb. 2.
Wilson, George W., Reading, Ohio. Conveyer. 2,309,723; Feb. 2.
Winders, Arthur L. (See Winders, Robert F. and A. L.)
Winders, Robert F. and A. L., South Gate, Calif. Spring construction. 2,309,880; Feb. 2.
Winters, David L., Los Angeles, Calif. Bombing mechanism for aircraft. 2,309,686; Feb. 2.
Wise, Ralph H., Detroit, Mich. Chair. 2,309,881; Feb. 2.
Wisner, John A., Baltimore, Md. Fountain cleaning device. 2,310,006; Feb. 2.
Wohlfield, Frederick W., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Fender shield construction and assembly. 2,309,724; Feb. 2.
Wolff, Jerome G., assignor to Scovill Manufacturing Company, Waterbury, Conn. Setting snap fasteners and the like. 2,310,007; Feb. 2.
Wolff, Jerome G., O. J. Huelster, and J. E. Fagan, assignors to Scovill Manufacturing Company, Waterbury, Conn. Apparatus for setting buttons and the like. 2,310,008; Feb. 2.
Wood, Orville T., assignor to Blake Manufacturing Corporation, Clinton, Mass. Flashlight. 2,309,687; Feb. 2.
Woodcock, Waldo E. (See Zalewski, W. F., and Woodcock.)
Woodman, Kenneth L., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical appliance. 2,310,142; Feb. 2.
Woodward, Clement A., Dedham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Cord securing device. 2,309,741; Feb. 2.
Worthington Pump and Machinery Corporation. (See Diserens, P., Karig, and O'Connell, assignors.)
Wuertz, Alexander J., and M. S. Whelen, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Dyestuffs of the anthraquinone series. 2,310,143; Feb. 2.
Yerton, George B., New York, N. Y. Curtain and drapery hanger for windows. 2,309,725; Feb. 2.
Yingling, Frank B., Hamilton, Ohio. Valve cooling means. 2,310,144; Feb. 2.
York Safe and Lock Company. (See Bescherer, Palmer, assignor.)
Youngberg, Walter K., Middletown, Conn. Butter cutter. 2,309,814; Feb. 2.
Youngberg, Walter K., Unionville, Conn. Butter former. 2,309,815; Feb. 2.
Zaeslin, Hans H. (See Martin, H., and Zaeslin.)
Zalewski, Walter F., and W. E. Woodcock, assignors to Onondaga Pottery Company, Syracuse, N. Y. Trimming mechanism. 2,309,726; Feb. 2.
Zenner, Walter J., Des Plaines, assignor to Teletype Corporation, Chicago, Ill. Ticket printer. 2,309,688; Feb. 2.
Zühlke, Marcel, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Single or polyphase switch arrangement. 2,310,145; Feb. 2.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF FEBRUARY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Air conditioning apparatus. M. Kalischer. Re. 22,261; Feb. 2.
Casein fibers, Treatment of. T. Koch and H. A. van der Kroon. Re. 22,262; Feb. 2.
Switching system for light-flash-producers, such as stroboscopes. H. E. Edgerton. Re. 22,260; Feb. 2.
Transmission, Automatic. O. H. Banker. Re. 22,259; Feb. 2.

LIST OF DESIGN INVENTIONS

Airplane control instruction device or similar article. J. H. Konefes. 134,942; Feb. 2.
Badge, Parachutist's. W. P. Yarborough. 134,963; Feb. 2.
Board, Clip. J. H. Brinker. 134,966; Feb. 2.
Buckle. B. D. Huff. 134,936; Feb. 2.
Bumper bar or the like. M. Mitchell. 134,943; Feb. 2.
Button or the like, Lapel emblem. W. S. Knudsen. 134,959; Feb. 2.
Cabinet, Kitchen. J. R. Harris. 134,934; Feb. 2.
Cart, Shopper's. W. Hansen. 134,941; Feb. 2.
Casement for portholes or the like. R. W. Rowland. 134,946; Feb. 2.
Casing or the like, Heater. H. R. Trout. 134,948; Feb. 2.
Cup and razor blade hone, Combined shaving. R. W. Harrison and F. Grabowski. 134,956; Feb. 2.
Dispenser, Liquid. A. E. Heemann. 134,935; Feb. 2.
Dress. C. Charles. 134,938; Feb. 2.
Dress. F. Greenberg. 134,972; Feb. 2.
Dress. B. Moye. 134,960; Feb. 2.
Dress. H. Rosenberg. 134,945; Feb. 2.
Emblem plate or similar article, Automobile. C. J. Dryden. 134,967; Feb. 2.
Emblem or similar article, Applique. W. P. Burn and H. L. Jurkops. 134,923; Feb. 2.
Frame and easel support, Combined picture. W. Katz. 134,958; Feb. 2.
Hat. Z. Harpignies. 134,968; Feb. 2.
Hat. P. M. Maxwell and W. J. Russy. 134,964; Feb. 2.
Holder, Bottle. P. E. Allen. 134,949; Feb. 2.
Holder, Garden hose. C. H. Churchill. 134,939; Feb. 2.
Jacket. B. Moye. 134,973; Feb. 2.
Jacket. D. Seligman. 134,974; Feb. 2.
Lace. A. Feerst. 134,953; Feb. 2.
Lace, Embroidered. M. P. Oeschger. 134,929; Feb. 2.
Match clusters and holder, Combined. H. Cohen. 134,933; Feb. 2.
Monument. A. H. Johnson. 134,927–8; Feb. 2.
Motion picture screen and carrying case, Combination. A. Shapiro. 134,965; Feb. 2.
Name plate. W. L. Enghauser. 134,925; Feb. 2.
Ornament, Aquarium. A. Greenberg. 134,953–5; Feb. 2.
Pen, Fountain. F. M. Ashley. 134,950; Feb. 2.
Pin or similar article. L. Kalina. 134,957; Feb. 2.
Plate or the like, Glass. C. T. Sloan. 134,962; Feb. 2.
Rack, Knife. A. E. Rosenberg. 134,930; Feb. 2.
Ring or similar article, Finger. A. Elkonin. 134,924; Feb. 2.
Shawl and head covering, Combined. R. M. Wolfe. 134,970; Feb. 2.
Shoe sole and heel, Combined. H. Clausing. 134,932; Feb. 2.
Skate, Roller. J. S. Yuill. 134,931; Feb. 2.
Suit. S. Etkin. 134,971; Feb. 2.
Suit. E. Goldfield. 134,940; Feb. 2.
Support, Mailbox. W. L. Enghauser. 134,951; Feb. 2.
Tower for tanks or the like, Supporting. D. Ording and L. S. Vallely. 134,961; Feb. 2.
Tray, Food. R. V. Stambaugh. 134,947; Feb. 2.
Trimming or similar article, Embroidered. N. M. Rosenbaum. 134,969; Feb. 2.
Vehicle body. A. Mortimer. 134,944; Feb. 2.
Vending machine contents display panel. W. B. Green. 134,926; Feb. 2.
Wallet. H. P. Behrman. 134,937; Feb. 2.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF FEBRUARY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive article. J. P. Fenton. 2,309,836; Feb. 2.
Acoustic screen. V. A. Schlenker. 2,310,154; Feb. 2.
Acid sludges, Neutralization of. F. I. Du Pont and W. B. Foulke. 2,309,633; Feb. 2.
Adjustment for running registers. C. Jacobson. 2,309,646; Feb. 2.
Agitating means and method for filter beds. C. E. Palmer. 2,309,916; Feb. 2.
Air treatment device. J. W. Carman. 2,309,885; Feb. 2.
Aircraft breathing regulator. G. M. Deming. 2,310,189; Feb. 2.
Alloy: *See*—
Welding alloy.
Alternating current generator. C. A. Lovell and R. F. Mallina. 2,309,703; Feb. 2.
Aminodiphenylether sulphonic acids, Manufacture of. H. Martin and H. H. Zaeslin. 2,309,969; Feb. 2.
Amphibian. T. F. Thompson. 2,309,875; Feb. 2.
Amphibious armoured vehicle. G. M. Gibbs and T. R. Tusting. 2,309,947; Feb. 2.
Annealing furnace. E. I. Huff. 2,309,699–700; Feb. 2.
Anthraquinone derivatives, Manufacture of. H. C. Olpin, C. S. Argyle, and F. Brown. 2,309,708; Feb. 2.
Apparatus for applying caps to containers. F. L. Bronson. 2,309,929; Feb. 2.
Apparatus for cleaning holes. J. W. Haddock. 2,310,001; Feb. 2.
Apparatus for coating sheet material. C. J. Randall. 2,309,981; Feb. 2.
Apparatus for controlling heating systems. W. M. Mulock. 2,309,915; Feb. 2.
Apparatus for cooking grain mash. B. E. Saltzman. 2,309,989; Feb. 2.
Apparatus for depth measurement. A. J. Hughes. 2,309,956; Feb. 2.
Apparatus for forming side openings in metal tubing. J. Q. Holmes and C. J. Wiegand. 2,310,083; Feb. 2.
Apparatus for galvanizing. E. A. Matteson. 2,310,162; Feb. 2.
Apparatus for handling ballast in railway road-beds. F. H. Philbrick. 2,309,712; Feb. 2.
Apparatus for handling strip material. E. A. Davis. 2,309,755; Feb. 2.
Apparatus for hardening tapered articles. F. S. Denneen and W. C. Dunn. 2,309,631; Feb. 2.
Apparatus for making can bodies. F. Krueger. 2,309,963; Feb. 2.
Apparatus for producing seamless tubes. A. J. Aiken. 2,309,690; Feb. 2.
Apparatus for separating finely divided materials. M. S. Robertson. 2,309,923; Feb. 2.
Apparatus for setting buttons and the like. J. G. Wolff, O. J. Huelster, and J. E. Fagan. 2,310,008; Feb. 2.
Apparatus for the transfer of sensible and latent heat. P. A. Scherer. 2,310,121; Feb. 2.
Applicator, Cosmetic. C. A. Mureau. 2,309,861; Feb. 2.
Aromatic amido compounds of therapeutic value, The preparation of new soluble. P. E. C. Goissedet and R. L. Despois. 2,309,841; Feb. 2.
Arrangement for the cooling of the compressor space of air and gas compressors. W. Elze. 2,309,833; Feb. 2.
Article distributing system. M. Cohen. 2,310,160; Feb. 2.
Articles, Molding. M. B. Reach. 2,309,865; Feb. 2.
Artificial teeth, Interchangeably mounted. I. Slomovici. 2,310,155; Feb. 2.
Ash tray, Pocket. N. J. Rabedew. 2,309,918; Feb. 2.
Attachment for bird cages. D. A. Dearle. 2,309,830; Feb. 2.
Attachment for machine gun cradles. J. C. Trotter. 2,309,807; Feb. 2.
Back gauge for shears. F. E. Munschauer. 2,310,182; Feb. 2.
Bags, Method of and apparatus for closing. G. B. First. 2,309,760; Feb. 2.
Band saw package. R. J. Wilkie. 2,310,140; Feb. 2.
Bandage. D. A. Holbrooke. 2,310,082; Feb. 2.
Bath, Treatment. E. Götte. 2,310,074; Feb. 2.
Bearing assembly. A. J. Bastian. 2,310,053; Feb. 2.
Bearing packer. H. S. Berg. 2,309,820; Feb. 2.
Belt attaching means for garments. J. Schneider. 2,310,040; Feb. 2.
Belt, Conveyer. T. A. Bennett. 2,309,928; Feb. 2.
Belt, Safety. L. E. Mingus. 2,310,035; Feb. 2.
Belt wrapper. J. W. O'Brien. 2,309,781; Feb. 2.
Beta-alkoxybutyroguanamines. M. H. Bradley. 2,309,624; Feb. 2.
Beta-alkoxyguanamines. J. T. Thurston and M. H. Bradley. 2,309,681; Feb. 2.
Board: *See*—
Slope reducing board.
Bobber for fish lines. E. H. Kruse. 2,310,030; Feb. 2.
Bobbin case. D. R. Gardner. 2,309,639; Feb. 2.
Bombing mechanism for aircraft. D. L. Winters. 2,309,686; Feb. 2.
Box: *See*—
Field box. Metal bound box.
Brake: *See*—
Railway car hand brake.
Brake actuator, Steering column. S. A. Snell. 2,309,796; Feb. 2.
Brake control mechanism. P. Klotsch. 2,309,734; Feb. 2.
Brake lever. A. P. Fergueson. 2,309,636; Feb. 2.
Brake rigging and/or railway car truck. C. R. Busch. 2,310,195; Feb. 2.
Broiler. A. Peron. 2,309,784; Feb. 2.
Brooder. H. C. Washburn. 2,309,720; Feb. 2.
Brush. M. Abrams. 2,310,186; Feb. 2.
Brush hook. J. J. Savi. 2,309,990; Feb. 2.
Building construction. H. Braloff. 2,309,748; Feb. 2.
Bumper switch for ball rolling games. F. W. Moxey. 2,310,163; Feb. 2.
Burner: *See*—
Gas burner. Hydrocarbon burner.
Bushing roller device. C. A. Brotherton. 2,309,824; Feb. 2.
Butter cutter. W. K. Youngberg. 2,309,814; Feb. 2.
Butter former. W. K. Youngberg. 2,309,815; Feb. 2.
Cabinet: *See*—
Humidifier cabinet.
Cable: *See*—
Electric power cable.
Candle and making, Multiple wick. M. C. Hamblet. 2,310,019; Feb. 2.
Canned food product. E. G. Gustavson. 2,310,028; Feb. 2.
Capillary active media, Production of. R. D. Neu. 2,310,109; Feb. 2.
Car: *See*—
Rail car.
Carbon black, Manufacturing. C. E. McKinney. 2,309,970; Feb. 2.
Carbon brush construction. L. E. Moberly. 2,310,108; Feb. 2.
Carbonaceous material, Coking. C. H. Hughes. 2,309,957–9; Feb. 2.
Carbonylic compounds, Condensation of. S. H. McAllister and V. E. Haury. 2,309,650; Feb. 2.
Carpet and floor covering turntable and the like. J. C. Owens. 2,310,036; Feb. 2.
Carrier wave signalling. R. L. Miller. 2,309,705; Feb. 2.
Case: *See*—
Bobbin case. Multiple match book case.
Cash register, adding and accounting machine, and the like. H. F. B. Högfors. 2,309,901; Feb. 2.
Catalytic masses, Process and apparatus for regulating the temperature of a. C. H. Thayer. 2,309,996; Feb. 2.
Catamenial sac. I. W. Robertson. 2,309,868; Feb. 2.
Cathode ray beam deflecting circuit. O. H. Schade. 2,309,672; Feb. 2.
Ceiling, Stone. E. Gräwer. 2,309,842; Feb. 2.
Chain: *See*—
Cutter chain.
Chair. W. G. Uline. 2,309,800; Feb. 2.
Chair. R. H. Wise. 2,309,881; Feb. 2.
Change return mechanism for vending machines. C. E. Lay. 2,309,873; Feb. 2.
Chlorine, Production of. D. L. Reed. 2,309,919; Feb. 2.
Chuck, Self-centering. R. Crzellitzer. 2,309,754; Feb. 2.
Cigar and filler transfer device. C. F. Röber and A. Böttger. 2,310,120; Feb. 2.
Cigarette dispenser. M. Tanzi. 2,309,799; Feb. 2.
Circuit: *See*—
Cathode ray beam deflecting circuit. Electric control circuit. Hydraulic machine circuit. Control circuit. Counter circuit.
Circuit controller for gaseous discharge devices, Automatic. J. A. McDermott. 2,310,149; Feb. 2.
Circuit for electric valve apparatus, Excitation. H. W. Lord. 2,310,101; Feb. 2.
Circuit heat transfer, Multiple. W. Ernst. 2,309,943; Feb. 2.

Circuit interrupter. H. H. Fahnoe. 2,310,069 ; Feb. 2.
Cleaner : *See*—
Self-cleaning automotive air cleaner.
Cleaning machine. H. C. Porter. 2,309,786 ; Feb. 2.
Cleat for use on athletic shoes. T. S. Park. 2,309,783 ; Feb. 2.
Climb milling machine. E. L. Fickett and W. O. Forman. 2,309,637 ; Feb. 2.
Clock, Time reminder. P. H. Henrikson. 2,309,844 ; Feb. 2.
Closure construction. H. C. Porter and A. P. Schulz. 2,309,785 ; Feb. 2.
Closure for collapsible tubes. R. M. Griffith. 2,309,895 ; Feb. 2.
Cloth guide, Adjustable. B. M. Jones and C. H. Streeter. 2,309,647 ; Feb. 2.
Clothespin. W. W. van der Clute. 2,310,156 ; Feb. 2.
Clutch : *See*—
Self-interrupting clutch.
Clutch plate. G. I. Goodwin. 2,309,950 ; Feb. 2.
Coin changing vending machine. T. O. R. Dahlberg. 2,309,693 ; Feb. 2.
Coin collector, Periodic. W. L. Hudson. 2,310,089 ; Feb. 2.
Collapsible tube apparatus. J. H. Fridén. 2,309,696 ; Feb. 2.
Collar, Float. J. R. Gardner. 2,309,839 ; Feb. 2.
Collimator. G. Lowkrantz. 2,310,031 ; Feb. 2.
Comparator gauge. J. C. Fisk. 2,309,891 ; Feb. 2.
Compass structure. B. E. Sherrill. 2,310,041 ; Feb. 2.
Compounds, Preparation of kuaternary onium. J. L. Brannon. 2,309,691 ; Feb. 2.
Condensation product, Triazine-aldehyde. G. Widmer and W. Fisch. 2,310,004 ; Feb. 2.
Condenser welding system. J. W. Dawson. 2,309,629 ; Feb. 2.
Condenser winding machine. W. F. Frisch. 2,310,071 ; Feb. 2.
Connector. J. A. Messing. 2,309,972 ; Feb. 2.
Connector for mop and brush handles. H. Cave and A. L. Le Febvre. 2,310,011 ; Feb. 2.
Container : *See*—
Food container.
Container. N. P. Van Wingen. 2,310,136 ; Feb. 2.
Container for cut flowers, Display and shipping. C. H. Ballard, A. N. Banter and S. E. Hays. 2,309,742 ; Feb. 2.
Control circuit. O. A. Pearson. 2,309,711 ; Feb. 2.
Control mechanism. R. R. Campbell. 2,309,749 ; Feb. 2.
Control switch for convertible tops. L. M. Baker. 2,309,926 ; Feb. 2.
Control system. T. R. Harrison. 2,310,027 ; Feb. 2.
Controller for induction motors. E. W. Seeger and C. Stansbury. 2,309,794 ; Feb. 2.
Conveyer. A. L. Bausman. 2,310,055 ; Feb. 2.
Conveyer. G. W. Wilson. 2,309,723 ; Feb. 2.
Conveyer loader. R. Q. Armington. 2,309,623 ; Feb. 2.
Cooking apparatus, Thermostatically controlled. R. O. Stevenson. 2,310,044 ; Feb. 2.
Cooling system for wind tunnels or similar enclosures. P. Diserens, H. E. Karig and M. E. O'Connell. 2,309,938 ; Feb. 2.
Cord securing device. C. A. Woodward. 2,309,741 ; Feb. 2.
Counter circuit. P. C. Michel. 2,310,105 ; Feb. 2.
Counting device. F. A. Poole. 2,310,114 ; Feb. 2.
Coupling : *See*—
Pipe coupling.
Coupling device for pipes. R. J. Fisher. 2,309,890 ; Feb. 2
Cover. R. H. Churchill. 2,309,933 ; Feb. 2.
Creosote, Conversion of. J. E. Harvey, Jr. 2,310,191 ; Feb. 2
Cultivator, Go-devil R. C. Holton. 2,309,847 ; Feb. 2.
Culvert. E. L. Westwood. 2,309,685 ; Feb. 2.
Curtain and drapery hanger for windows. G. B. Yerton. 2,309,725 ; Feb. 2.
Cutter : *See*—
Butter cutter. Rotary cutter.
Cutter chain. E. J. Doberstein. 2,310,016 ; Feb. 2.
Cyclopentano-polyhydro-phenanthrene series and making same, Derivatives of the. K. Miescher and A. Wettstein. 2,310,150 ; Feb. 2.
Decoding apparatus and method. G. W. Baughman 2,309,743 ; Feb. 2.
Deep well pump. W. J. Crites. 2,309,827 ; Feb. 2.
Deodorant. C. E. Loetel. 2,310,099 ; Feb. 2.
Device for determining inclination of well bores. D. H. Weinstein and L. H. Metzner. 2,309,877 ; Feb. 2.
Device for surveying well bores. E. M. Irwin, B. H. Rule and G. E. Lewis. 2,309,905 ; Feb. 2.
Diazo printing pastes and product, Making. N. S. Cassel. 2,310,013 ; Feb. 2.
Die set. W. E. Dalby. 2,309,828 ; Feb. 2.
Die set, Forming. A. De Rentiis. 2,309,632 ; Feb. 2.
Differential pressure loaded control valve. W. R. King. 2,309,848 ; Feb. 2.
Dispenser : *See*—
Cigarette dispenser.
Display carton. H. A. Cowles and G. W. Simpson. 2,309,753 ; Feb. 2.
Doll. E. W. Reno. 2,310,037 ; Feb. 2.
Domestic washing machine. P. W. Douglas. 2,309,940 ; Feb. 2.
Door operating means, Overhead. R. Rogers. 2,309,984 ; Feb. 2.
Drawer, Article container. L. Edelmann. 2,309,888 ; Feb. 2.
Drawer pull and label holder. P. Bescherer. 2,309,882 ; Feb. 2.
Drier control. R. Skagerberg. 2,309,993 ; Feb. 2.
Drilling apparatus. H. H. Vanderzee. 2,310,000 ; Feb. 2.
Drive mechanism, Reduction. J. W. Kinnucan. 2,309,908 ; Feb. 2.
Driving mechanism for valve cutoff indicators. F. D. Welden. 2,309,684 ; Feb. 2.
Drop wire support. E. S. McLarn. 2,309,971 ; Feb. 2.
Dry size and making. E. S. Wilson. 2,310,005 ; Feb. 2.
Dyestuffs, Azo. N. M. Mackenzie. 2,310,181 ; Feb. 2.
Dyestuffs of the anthraquinone series. A. J. Wuertz and M. S. Whelen. 2,310,143 ; Feb. 2.
Dyestuffs of the dibenzanthrone series. E. T. Howell. 2,310,087 ; Feb. 2.
Earth mover. G. E. Carrington. 2,309,750 ; Feb. 2.
Electric appliance. James J. Gough. 2,309,641 ; Feb. 2.
Electric circuit breaker. H. Korndörfer. 2,310,093 ; Feb. 2.
Electric circuit service head. E. E. Phillips. 2,309,920 ; Feb. 2.
Electric control circuit. H. L. Palmer and G. W. Garman. 2,310,112 ; Feb. 2.
Electric discharge apparatus. D. D. Knowles and C. E. Haller. 2,310,092 ; Feb. 2.
Electric discharge systems. R. M. Somers. 2,309,874 ; Feb. 2.
Electric discharge tubes, Controlling. A. H. Brackensey. 2,309,883 ; Feb. 2.
Electric motor. W. P. Hunsdorf. 2,309,904 ; Feb. 2.
Electric power cable. T. R. Scott and J. K. Webb. 2,309,992 ; Feb. 2.
Electric switch. H. C. Harrison. 2,309,953 ; Feb. 2.
Electric systems, Supervision of. S. B. Crary. 2,310,065 ; Feb. 2.
Electric toaster. J. J. Gough. 2,309,640 ; Feb. 2.
Electrical appliance. K. L. Woodman. 2,310,142 ; Feb. 2.
Electrical distribution system. W. H. Frank and A. S. Bassette. 2,310,024 ; Feb. 2.
Electrical filter network. H. M. Lewis. 2,309,852 ; Feb. 2.
Electrical measuring device. R. J. Clay. 2,309,934 ; Feb. 2.
Electrical regulating apparatus. P. M. Currier. 2,310,066 ; Feb. 2.
Electrical resistance element. W. Kroll. 2,310,094 ; Feb. 2.
Electrical switch. C. G. Koppitz and S. H. Kast. 2,309,909 ; Feb. 2.
Electrical switching apparatus. C. C. Whittaker. 2,310,138 ; Feb. 2.
Electrode holder. W. F. Collins. 2,309,886 ; Feb. 2.
Electrode holder. M. Gallo. 2,310,020 ; Feb. 2.
Electrode holder. J. J. Prendergast, R. A. Jones, and W. N. Guillett. 2,310,164 ; Feb. 2.
Electrode support lead. R. Gray. 2,309,642 ; Feb. 2.
Electrode systems, Making blocking layer. W. C. van Geel, H. Emmens, and L. L. Esseling. 2,310,002 ; Feb. 2.
Electron discharge device. H. J. Dailey. 2,310,147 ; Feb. 2.
Electron discharge device. C. F. Miller. 2,309,973 ; Feb. 2.
Engine : *See*—
Internal combustion engine. Two-cycle supercharged, compound, Diesel engine.
Rotary valve engine.
Engine starter drive. K. F. Douglas. 2,310,174 ; Feb. 2.
Esters of polyhydric alcohols, Preparation of mixed. C. M. Gooding. 2,309,949 ; Feb. 2.
Esters, Sulphur-containing. L. L. Davis, B. H. Lincoln, and G. D. Byrkit. 2,309,829 ; Feb. 2.
Ether esters of cashew nutshell liquid and preparation, Mixed. S. Caplan. 2,310,146 ; Feb. 2.
Evaporator. F. A. Smith. 2,310,042 ; Feb. 2.
Eyelets or the like, Method of and blank for producing. J. W. and K. W. Ekstedt. 2,309,942 ; Feb. 2.
Fabric printing machine, Continuous. J. T. Montague. 2,309,914 ; Feb. 2.
Fan attachment for sewing machines. A. Gold and S. Spielman. 2,309,894 ; Feb. 2.
Fastener : *See*—
Rotary operative fastener.
Fastener. A. Wickstrom. 2,309,721 ; Feb. 2.
Fastener-applying implement. A. H. Maynard. 2,309,778 ; Feb. 2.
Fastener device and installation of the same, Rotary operative. H. J. Murphy. 2,309,737 ; Feb. 2.
Fastener supplying device. C. B. Goodstein. 2,309,763 ; Feb. 2.
Fastening device for sink strainers. B. G. Kuhne. 2,309,851 ; Feb. 2.
Faucet valve. W. A. Herring and R. D. Barnett. 2,309,900 ; Feb. 2.
Feeder : *See*—
Sheet feeder. Stock feeder.
Fender shield construction and assembly. F. W. Wohlfield. 2,309,724 ; Feb. 2.
Fibro-cement product, Coated. C. E. Kraus. 2,309,962 ; Feb. 2.

Field box. W. P. Browne and A. L. Sheldon. 2,310,063; Feb. 2.
Filter agitating means and method. C. E. Palmer. 2,309,917; Feb. 2.
Fish lure. J. W. Harvey. 2,309,902; Feb. 2.
Flashlight. O. T. Wood. 2,309,687; Feb. 2.
Fluid feeding device. H. L. Baer. 2,310,051; Feb. 2.
Fluid turbine, Elastic. O. A. Wiberg. 2,309,878; Feb. 2.
Fluorescent lamp. G. T. Schmidling. 2,309,676; Feb. 2.
Food container. C. M. Plochman. 2,310,113; Feb. 2.
Foods, Processing of. H. Bresnick. 2,309,884; Feb. 2.
Fountain cleaning device. J. A. Wisner. 2,310,006; Feb. 2.
Frequency modulation system. J. E. Smith. 2,309,678; Feb. 2.
Fruit picker. H. Goebel. 2,309,948; Feb. 2.
Fuel assembly, Propellent. C. D. Pratt. 2,309,978; Feb. 2.
Fuel gases, Self-service system for storage and utilization of. K. W. Rugh. 2,309,869; Feb. 2.
Fuel tank. E. W. Whiting. 2,309,813; Feb. 2.
Fuel tank projectile, Leakproof. A. J. De Camp. 2,309,887; Feb. 2.
Furnace: *See*—
Annealing furnace.
Furnace checkerwork. G. P. Reintjes. 2,309,789; Feb. 2.
Furs, Treating. P. Kestenbaum. 2,309,907; Feb. 2.
Furyl vinyl ketone and its alpha alkyl substituted vinyl analogues. C. E. Barnes. 2,309,727; Feb. 2.
Fused cutout. D. C. Hubbard. 2,309,698; Feb. 2.
Garden hose stand. M. Karger. 2,309,772; Feb. 2.
Garment. D. L. McDonald. 2,310,103; Feb. 2.
Garment and making same. J. I. Seifer. 2,309,716; Feb. 2.
Garment construction. R. Rirschfeld. 2,309,955; Feb. 2.
Garment hanger. J. Bolten and H. Spitz. 2,310,058; Feb. 2.
Gas burner. P. F. Ratcliff. 2,310,116; Feb. 2.
Gas generating system. R. J. Kehl. 2,309,701; Feb. 2.
Gases, Dispensing. J. A. Heidbrink. 2,310,021; Feb. 2.
Gate: *See*—
Starting gate.
Gate. C. N. Dilatush. 2,309,694; Feb. 2.
Gauge: *See*—
Comparator gauge.
Gauge. V. N. Attaway. 2,309,818; Feb. 2.
Gear cam track and making same. P. J. McLaren. 2,309,704; Feb. 2.
Generator: *See*—
Alternating current generator.
Generator transmission. R. H. Hill. 2,310,081; Feb. 2.
Geometrical instrument. H. H. Vane. 2,309,809; Feb. 2.
Geophysical explorations, Making. L. F. Athy and E. V. McCollum. 2,309,817; Feb. 2.
Glass and apparatus therefor, Grinding and polishing. R. C. Benner. 2,309,819; Feb. 2.
Glass, Method and apparatus for surfacing. M. L. Devol, P. W. Crist, and E. J. Hazen. 2,309,831; Feb. 2.
Goggles. C. H. Dockson and H. S. Davis. 2,309,832; Feb. 2.
Golf glove. E. H. Patterson, Jr. 2,309,710; Feb. 2.
Governing mechanism. J. J. Gabalis and F. A. Meyer. 2,309,892; Feb. 2.
Graphical computation for the solution of navigation problems and similar problems, Method and apparatus for. R. W. Byerly. 2,309,930; Feb. 2.
Grill and chafing dish. H. Volks. 2,310,157; Feb. 2.
Grinding machine. J. E. Poorman. 2,309,668–9; Feb. 2.
Guanamines, Preparing. D. E. Nagy. 2,309,661; Feb. 2.
Guanamines, Preparing. W. N. Oldham. 2,309,664; Feb. 2.
Guanamines, Preparing. J. T. Thurston. 2,309,679; Feb. 2.
Guanamines, Preparing substituted. W. N. Oldham. 2,309,663; Feb. 2.
Guanylurea salts. J. T. Thurston and R. C. Swain. 2,310,045; Feb. 2.
Gun, Lock picking. S. Segal. 2,309,677; Feb. 2.
Gun mount, Twin. J. C. Trotter. 2,309,808; Feb. 2.
Hair waving apparatus. L. I. Fink. 2,309,638; Feb. 2.
Hammer for centrifugal devices and the like. T. A. Ratkowski. 2,309,713; Feb. 2.
Hanger: *See*—
Garment hanger.
Heat exchanger, Surface type. A. Howard. 2,310,086; Feb. 2.
Heel. P. Mariani. 2,309,776; Feb. 2.
High frequency current shunt. W. F. Skeats. 2,310,126; Feb. 2.
Holder: *See*—
Drawer pull and label holder. Electrode holder.
Hook: *See*—
Brush hook.
Humidifier cabinet. J. P. Reinhardt. 2,310,118; Feb. 2.
Hydraulic machine circuit. W. Ernst. 2,309,758; Feb. 2.
Hydrocarbon burner. G. D. Gearhart. 2,309,762; Feb. 2.
Hydrocarbon conversion. J. E. Harvey, Jr. 2,310,192; Feb. 2.
Hydrocarbon fluids, Treatment of. W. A. Schulze and G. H. Short. 2,309,871; Feb. 2.
Hydrocarbon oil, Cracking. J. K. Roberts and M. T. Carpenter. 2,310,183; Feb. 2.
Hydrocarbon oils, Treatment of. J. D. Seguy. 2,310,123; Feb. 2.
Hydrocarbons, Preparing high boiling. C. M. Thacker. 2,309,718; Feb. 2.
Hydroxy derivatives of sulphonal and its homologues. H. Dietrich, F. Johannessohn, E. Rabald, and W. Peris. 2,309,937; Feb. 2.
Hydroxy-substituted guanamines. J. T. Thurston and D. W. Kaiser. 2,309,680; Feb. 2.
Illuminated door lock. C. F. Garvert and P. B. Knepper. 2,309,840; Feb. 2.
Inhaler. E. M. Holm. 2,309,846; Feb. 2.
Innersole for shoes. W. M. Schlear. 2,309,673; Feb. 2.
Insecticides, Protection of. J. Motte and J. Pomot. 2,309,860; Feb. 2.
Insulating part of storage batteries. M. T. Harvey. 2,310,077; Feb. 2.
Integrating apparatus. R. W. Ross. 2,309,790; Feb. 2.
Interlocking, indicating, and control device for amusement park rides. W. B. Schmidt, T. B. Morse, and M. H. Rieves. 2,310,039; Feb. 2.
Internal combustion engine. C. Voorhies. 2,309,740; Feb. 2.
Jig, Grinding. J. Y. Blazek, G. E. Sears, and V. R. Roy. 2,309,620; Feb. 2.
Joint: *See*—
Universal joint.
Joint bumper sub, Safety. J. E. Reed. 2,309,866; Feb. 2.
Knitting machine and method. O. Fregeolle. 2,310,070; Feb. 2.
Ladder, Extensible. J. P. Reinhardt. 2,310,119; Feb. 2.
Lamp: *See*—
Fluorescent lamp.
Latching device. E. W. North. 2,309,863; Feb. 2.
Lawn trimmer. H. W. Kelsey. 2,309,906; Feb. 2.
Lens grinding and polishing machine. R. C. David. 2,309,936; Feb. 2.
Lens mounting. W. R. and R. H. Uhlemann. 2,310,133; Feb. 2.
Level device, Constant. R. W. Johnson. 2,309,770; Feb. 2.
Light for license plates. D. W. Tiffany. 2,309,805; Feb. 2.
Light responsive target apparatus. D. E. Hooker, C. T. Breitenstein and N. A. Nelson. 2,310,084; Feb. 2.
Light socket, Universally adjustable. N. R. Schwartz. 2,309,991; Feb. 2.
Lighter, Cigar. J. T. Kline. 2,310,029; Feb. 2.
Lighting device for portable electric tools. D. D. Way. 2,310,166; Feb. 2.
Lighting fixture. L. Schepmoes. 2,309,792; Feb. 2.
Lignite briquettes, Production of. E. T. Lance and W. L. Wells. 2,310,095; Feb. 2.
Line control mechanism. B. S. Ferguson. 2,309,759; Feb. 2.
Liquid pressure remote control system, more particularly for operating soot blowers of boilers and the like. F. S. Eves. 2,309,889; Feb. 2.
Liquids from liquid and solid hydrocarbons, Production of valuable. J. E. Harvey, Jr. 2,309,954; Feb. 2.
Liquids with sulphur combustion gases, Process and apparatus for treating. B. A. Axelrad and S. T. Powell. 2,310,187; Feb. 2.
Lock: *See*—
Illuminated door lock.
Locking mechanism for servomotors. R. Daalder. 2,310,018; Feb. 2.
Locomotive crosshead guide. J. G. Blunt. 2,310,159; Feb. 2.
Loom temple. A. B. Shelton. 2,310,125; Feb. 2.
Machine for and method of bending tubing. F. M. Kepler. 2,310,091; Feb. 2.
Machine for cutting flexible sheet material. A. D. Rosenfarb. 2,310,153; Feb. 2.
Machine for forming and affixing center spots to crown caps. P. E. Pearson. 2,309,667; Feb. 2.
Machine for setting the shape of textile articles. T. W. Prosser, J. H. Wahlbeck, L. H. Oswald, and L. S. Kleinfeld. 2,309,659; Feb. 2.
Magazine for fastener-applying instruments. A. H. Maynard. 2,309,779; Feb. 2.
Magazine for safety razors. J. Muros. 2,309,780; Feb. 2.
Magnetic contactor. W. I. Bendz. 2,310,056; Feb. 2.
Management instrument for busines. A. F. Schlomann and A. Schwarz. 2,309,675; Feb. 2.
Manual reset valve. E. Paille. 2,309,709; Feb. 2.
Map and making same, Contour. H. L. Cooke and G. P. Harnwell. 2,309,627; Feb. 2.
Maps, Method and apparatus for producing. H. L. Cooke. 2,309,752; Feb. 2.
Marine bulk-cargo unloading boom. C. M. Rudow. 2,309,715; Feb. 2.
Massaging apparatus. J. G. Miller. 2,310,106; Feb. 2.
Material, Determining the porosity of. B. W. Nordlander. 2,310,111; Feb. 2.
Material for construction of artificial dentures and producing the same. L. Underdahl. 2,310,132; Feb. 2.
Material handling apparatus. A. A. Saul. 2,309,671; Feb. 2.
Material, Treating. L. B. West. 2,309,810; Feb. 2.
Meat reforming and rolling machine. C. Doering, H. H. Doering, B. J. Skoglund, and E. W. Anderson. 2,310,067; Feb. 2.

Mercaptan-solvent mixtures, Removal of mercaptans from. L. N. Leum and E. R. Birkhimer. 2,309,652–4; Feb. 2.
Metal bound box. Roy F. McMahan. 2,309,655; Feb. 2.
Metal hose, Flexible. J. L. Vaill. 2,309,719; Feb. 2.
Metal, Porous. O. R. Bowen. 2,310,061; Feb. 2.
Meter. W. E. Beede. 2,309,927; Feb. 2.
Meter housing. E. J. Ruthman. 2,309,670; Feb. 2.
Mineral oil, Compounded. B. B. Farrington, J. O. Clayton and J. T. Rutherford. 2,310,175; Feb. 2.
Monohalonitromethanes, Production of. J. B. Tindall. 2,309,806; Feb. 2.
Motion picture, Stereoscopic. F. H. Willis. 2,309,879; Feb. 2.
Motor: *See*—
Electric motor. Vibration motor.
Motor and control thereof, Reciprocatory. C. S. Weyandt. 2,310,185; Feb. 2.
Motor control, Synchronous. W. R. Wickerham. 2,310,139; Feb. 2.
Motor control system. B. O. Austin. 2,310,050; Feb. 2.
Motor control system. N. H. Willby. 2,310,141; Feb. 2.
Motor fuel and preparation thereof. R. F. Ruthruff. 2,309,986–7; Feb. 2.
Mounting: *See*—
Lens mounting.
Mower. L. L. Edwards. 2,309,635; Feb. 2.
Multiple cylinder press. W. J. Riddle. 2,309,983; Feb. 2.
Multiple match book case. G. M. Lee. 2,309,965; Feb. 2
Music display stand, Collapsible. G. H. Todd. 2,309,876; Feb. 2.
Needle-vibrating mechanism for sewing machines. A. N. Hale. 2,310,176; Feb. 2.
Nitric oxide and hydrocarbons from gaseous mixtures, Recovery of. E. B. Hodge. 2,309,845; Feb. 2.
Nitrolignin molding composition and making the same. H. Burrell. 2,310,010; Feb. 2.
Nonoverfill device. R. H. Hill. 2,310,080; Feb. 2.
Oil from corn gluten, Separating. H. H. Schopmeyer and G. V. Sharps. 2,310,184; Feb. 2.
Oil, Treatment of hydrocarbon. J. H. McCullough, E. R. Birkhimer, and L. N. Leum. 2,309,651; Feb. 2.
Olefins and catalyst therefor, Polymerization of. E. T. Layng. 2,310,161; Feb. 2.
Ore particles in gravity separating mediums, Separating. S. T. Cameron. 2,309,931; Feb. 2.
Oxychloride coating. G. S. Smith. 2,310,128; Feb. 2.
Oxygen delivering apparatus of the demand type. J. A. Heidbrink. 2,310,022; Feb. 2.
Packaging apparatus and method. M. Allatt. 2,309,621; Feb. 2.
Packing device. T. S. Miller. 2,309,658; Feb. 2.
Packing device. T. S. Miller. 2,309,974; Feb. 2.
Packing structure for eggs. K. K. Newsom. 2,310,110; Feb. 2.
P-aminobenzenesulphonamide, Derivatives of. A. Salomon. 2,309,870; Feb. 2.
Paper board units, Production of. W. J. Goettsch. 2,309,728; Feb. 2.
Partition device. B. Gustafson and S. Geipe. 2,309,896; Feb. 2.
Petroleum emulsions, Breaking. E. E. Claytor. 2,309,935; Feb. 2.
Phase corrector for telegraph systems. W. A. Anderson. 2,309,622; Feb. 2.
Photographic apparatus. H. Kershaw. 2,309,960; Feb. 2.
Photographic flashlight equipment. O. Steiner. 2,310,165; Feb. 2.
Photography, Color. I. W. Conrad. 2,309,626; Feb. 2
Photoprinting device. J. Horn. 2,310,148; Feb. 2.
Pipe coupling. L. T. H. Greig. 2,310,073; Feb. 2.
Pipes, Coating and manufacture of. W. R. Hume. 2,309,903; Feb. 2.
Pitch, Treating. J. E. Harvey, Jr. 2,310,193; Feb. 2.
Plaster, Set stabilized. H. F. Gardner. 2,310,023; Feb. 2.
Platen leveling device. P. E. Flowers. 2,309,944; Feb. 2.
Plug: *See*—
Sparking plug.
Polarized relay. J. S. Garvin. 2,309,945; Feb. 2.
Pole guying fixture. A. B. Chance. 2,309,751; Feb. 2.
Polyethines or their derivatives, Producing. W. O. Herrmann, W. Haehnel, and H. Deutsch. 2,309,768; Feb. 2.
Polymeric materials, Molding of. W. E. Gordon. 2,309,729; Feb. 2.
Pot, Tea or coffee. W. Englund. 2,309,834; Feb. 2.
Potential device. P. O. Langguth and E. L. Harder. 2,310,097; Feb. 2.
Power drill safety support, Portable. A. L. Kowalske. 2,309,777; Feb. 2.
Power transmission. C. V. Losey and R. E. Esch. 2,310,100; Feb. 2
Power transmission. H. F. Patterson. 2,309,864; Feb. 2.
Power transmission. R. A. Shartle. 2,310,124; Feb. 2.
Power transmission belt. H. W. Kelly. 2,309,648; Feb. 2.
Power transmission mechanism. V. S. Larionoff-Romanovsky. 2,309,911; Feb. 2.
Pregnane-diones, Substituted derivatives of saturated or unsaturated. T. Reichstein. 2,309,867; Feb. 2.
Press: *See*—
Multiple cylinder press.
Pressing apparatus for plastic material. W. H. Emerson. 2,310,068; Feb. 2.
Price tag printing machine. F. Kohnle. 2,310,179; Feb. 2.
Printing and signaling system, Unit transmitter. M. W. Muehter. 2,309,660; Feb. 2.
Printing telegraph apparatus. K. A. Sylvester. 2,310,129; Feb. 2.
Projection apparatus. C. Waldeyer. 2,310,047; Feb. 2.
Propeller, Adjustable pitch. A. Hepperle. 2,309,899; Feb. 2.
Propelling attachment. J. Sedore and A. A. Smith. 2,309,793; Feb. 2.
Protection for bias filter condensers. J. E. Baudino. 2,310,054; Feb. 2.
Pump: *See*—
Deep well pump.
Pump. J. E. Hall. 2,309,897; Feb. 2.
Pump. R. J. Jauch and R. H. Arnold. 2,310,178; Feb. 2.
Pump or motor for power transmission. K. R. Herman. 2,310,078; Feb. 2.
Pumping unit. G. A. Wahlmark. 2,309,683; Feb. 2.
Pumping unit. G. A. Wahlmark. 2,309,803; Feb. 2.
Purification, Water. C. L. Baker and C. H. Dedrick. 2,310,009; Feb. 2.
Racket stringing device. R. A. Kausal and K. C. Kausal. 2,309,849; Feb. 2.
Radio beacon, Directional. A. H. Hermansson. 2,310,079; Feb. 2.
Radio communication systems, Control of fading in. A. L. Green. 2,310,196; Feb. 2.
Radio direction finding system. F. E. Bartholy. 2,310,052; Feb. 2.
Radio transmission, Two-wire. J. D. Booth and A. P. Bock. 2,310,060; Feb. 2.
Rail car. P. Parke. 2,309,665; Feb. 2.
Railway car hand brake. E. E. Van Cleave. 2,310,135; Feb. 2.
Railway car truck. K. Edahl and C. J. Holland. 2,309,634; Feb. 2.
Railway track circuit apparatus. A. E. Dodd. 2,309,757; Feb. 2.
Railway track switch connecting mechanism. H. L. Bone. 2,309,746; Feb. 2.
Rate and attitude indicating instrument. J. Lyman and E. Norden. 2,309,853; Feb. 2.
Ratio transmission, Progressive speed. F. F. Lazaga. 2,309,912; Feb. 2.
Razor blade magazine and blade pack therefor. L. Kuhnl. 2,310,180; Feb. 2.
Recording system. L. Middleditch. 2,309,857; Jan. 2.
Reed for musical instruments. A. C. Radtke and D. T. Fernandez. 2,309,714; Feb. 2.
Refining, Sublimation. F. Hansgirg. 2,309,643; Feg. 2.
Reflective projection system. E. G. Ramberg. 2,309,788; Feb. 2.
Refrigerating apparatus. D. E. Dasher. 2,309,756; Feb. 2.
Refrigerating apparatus. D. L. Kaufman. 2,309,773; Feb. 2.
Refrigerating apparatus. D. H. Reeves. 2,310,117; Feb. 2.
Refrigerating apparatus. C. A. Stickel. 2,309,797; Feb. 2.
Register, Sales. R. J. Harrington and F. P. Shearer. 2,309,645; Feb. 2.
Regulator: *See*—
Aircraft breathing regulator.
Relaying equipment, Phase-sequence. B. E. Lenehan. 2,309,649; Feb. 2.
Resilient articles, Method and device for handling stacks of. B. L. Siegel. 2,309,795; Feb. 2.
Rethresher attachment for threshers. M. Makin. 2,309,736; Feb. 2.
Ribbon oscillograph. C. R. Skinner. 2,309,994; Feb. 2.
Rising support. H. Starks. 2,310,043; Feb. 2.
Road planer. H. E. Boerma. 2,310,057; Feb. 2.
Rotary abrading tool. E. W. Hall. 2,309,951; Feb. 2.
Rotary cutter. F. P. Miller. 2,309,657; Feb. 2.
Rotary drilling apparatus. H. H. Vanderzee. 2,309,999; Feb. 2.
Rotary operative fastener. F. E. Johnson. 2,309,731–2; Feb. 2.
Rotary operative fastener. W. I. Jones. 2,309,733; Feb. 2.
Rotary valve engine. W. F. Vallier. 2,310,134; Feb. 2.
Rubber hydrochloride composition. J. P. Chittum and G. E. Hulse. 2,309,932; Feb. 2.
Safety device for pressure vessels and the like. W. W. Mason. 2,309,856; Feb. 2.
Sampling apparatus. C. D. Cantrell, Jr. 2,309,625; Feb. 2.
Sanding machine. S. D. Lee. 2,309,913; Feb. 2.
Saw, Folding pocket hack. G. Allen. 2,309,816; Feb. 2.
Saw, Power. A. Ronning. 2,310,152; Feb. 2.
Scaffold structure. J. Broncato. 2,310,062; Feb. 2.
Screen: *See*—
Acoustic screen.
Semicircular window and screen.
Screen construction. W. R. Fry. 2,309,761; Feb. 2.
Screw spotter, Set. L. G. Haase. 2,309,765; Feb. 2.
Sealed submersible structure. T. G. Myers. 2,309,707; Feb. 2.

Seed planting package. S. Kirschenbaum. 2,309,702; Feb. 2.
Self-centering device for sewer pipes. P. E. Scott. 2,310,122; Feb. 2.
Self-cleaning automotive air cleaner. H. M. Fitch and W. K. Gregory. 2,309,838; Feb. 2.
Self-interrupting clutch. C. G. Strandlund. 2,309,995; Feb. 2.
Semicircular window and screen. F. M. Smith. 2,310,127; Feb. 2.
Shade, Black-out. J. S. Apfel. 2,310,014; Feb. 2.
Shaft straightener. D. K. Pope. 2,310,151; Feb. 2.
Sheet feeder. H. A. Pritchard. 2,309,979; Feb. 2.
Sheet handling apparatus. A. Neuhart. 2,309,662; Feb. 2.
Shoe last. N. V. Levitt. 2,309,775; Feb. 2.
Side delivery transporting machine. R. Hastings, Jr. 2,309,730; Feb. 2.
Signal device, Warning. C. C. Drummond. 2,309,941; Feb. 2.
Signal transmission system. J. E. Maynard. 2,310,198; Feb. 2.
Signaling device for closed tanks. T. C. Smith. 2,309,804; Feb. 2.
Signaling system. E. L. Harder. 2,310,076; Feb. 2.
Signaling system. A. H. Miller. 2,310,034; Feb. 2.
Sink or tub repair bottom. S. Greenspan. 2,309,843; Feb. 2.
Slide fastener stop attaching machine. L. F. Muther. 2,310,033; Feb. 2.
Slope reducing board. C. J. Maddox. 2,309,855; Feb. 2.
Snap fasteners and the like, Setting. J. G. Wolff. 2,310,007; Feb. 2.
Solvents, Producing. J. E. Harvey, Jr. 2,310,190; Feb. 2.
Sound record and reproducing system. W. J. Albersheim. 2,310,049; Feb. 2.
Sparking plug. F. R. F. Ramsay. 2,309,980; Feb. 2.
Speed planetary transmission for automobiles, Variable. I. P. Popoff. 2,310,115; Feb. 2.
Spring construction. R. F. and A. L. Winders. 2,309,880; Feb. 2.
Sprinkler, Rotary. F. C. Orr. 2,309,782; Feb. 2.
Stand: *See*—
Garden hose stand. Music display stand.
Standard blanks and a variety of finished units therefrom, Forming. A. L. Parker. 2,309,666; Feb. 2.
Starting gate. N. C. Harris and J. P. Whann. 2,309,952; Feb. 2.
Stationary padding device. C. W. Bond. 2,310,059; Feb. 2.
Steel and making same, Galvanized. N. P. Veeder. 2,309,801; Feb. 2.
Steel beam, Fabricated. A. M. Bowman. 2,309,823; Feb. 2.
Stemming machine. P. Peterson. 2,309,738; Feb. 2.
Stock feeder. W. B. Thieman. 2,309,997; Feb. 2.
Stoker apparatus for brooder heaters. H. E. Mitchell. 2,309,858; Feb. 2.
Structural material for soundproofing. C. C. Droeger. 2,309,695; Feb. 2.
Sublimation apparatus. F. J. Hansgirg. 2,309,644; Feb. 2.
Sublimation refining. F. J. Hansgirg. 2,310,188; Feb. 2.
Sulphamic acid compounds and making same. J. B. Rust. 2,310,038; Feb. 2.
Sulphate turpentine and tall oil, Refining. F. Trimble. 2,310,046; Feb. 2.
Sulphur combustion gases, Method and apparatus for providing a controlled supply of. J. B. Chatelain and G. A. Cain. 2,310,173; Feb. 2.
Sulphur polymer plastic compositions. M. B. Chittick and P. V. McKinney. 2,309,692; Feb. 2.
Superheater. C. McIntosh. 2,309,706; Feb. 2.
Support: *See*—
Drop wire support. Rising support.
Power drill safety support.
Supporting frame for rucksacks and the like. E. H. Wallin. 2,310,137; Feb. 2.
Switch: *See*—
Electric switch. Time switch.
Electrical switch.
Switch arrangement, Single or polyphase. M. Zühlke. 2,310,145; Feb. 2.
Switch structure. E. W. Landmeier. 2,310,096; Feb. 2.
Switching mechanism for multiple way adapters. G. Raft. 2,309,921; Feb. 2.
System for storage and utilization of fuel gases. C. MacSporran. 2,309,854; Feb. 2.
Tacker. S. A. Crosby. 2,309,628; Feb. 2.
Tank: *See*—
Fuel tank.
Target shooting apparatus. D. E. Hooker and F. G. Nicolaus. 2,310,085; Feb. 2.
Telephone fixture. R. R. Mathieson. 2,310,032; Feb. 2.
Television system. A. V. Bedford. 2,309,744; Feb. 2.
Television system. T. L. Gottier. 2,309,764; Feb. 2.
Television system. C. W. Hansell. 2,310,197; Feb. 2.
Temperature control system for internal combustion engines. F. E. Mueller. 2,309,976; Feb. 2.
Tension roll drives. G. P. Lessmann. 2,310,098; Feb. 2.
Textile drying apparatus. G. T. King. 2,309,961; Feb. 2.
Textile printing composition and printing therewith. A. E. Gessler and R. A. Pizzarello. 2,309,946; Feb. 2.
Textile printing emulsions, Method and composition for producing. N. S. Cassel. 2,310,012; Feb. 2.
Textile printing with emulsion containing dyestuff reactant. W. B. Reynolds and S. A. Scully. 2,309,982; Feb. 2.
Textiles, Matting of. A. Landolt. 2,309,964; Feb. 2.
Thermopile. F. R. Higley. 2,310,026; Feb. 2.
Thread cutting mechanism. F. Nell. 2,309,862; Feb. 2.
Thread or the like, Manufacturing. R. F. Bergmann. 2,309,821; Feb. 2.
Thread or the like, Treating. L. J. Jordan. 2,309,771; Feb. 2.
Ticket printer. W. J. Zenner. 2,309,688; Feb. 2.
Time-delayed undervoltage tripping-mechanism for circuit breakers. J. W. May. 2,310,102; Feb. 2.
Time switch. A. G. Kalaydjian. 2,310,090; Feb. 2.
Titanium sulphate solutions, Treating. L. W. Ryan and W. J. Cauwenberg. 2,309,988; Feb. 2.
Tobacco, Treatment of. J. M. Moseley and R. P. Hudson. 2,309,975; Feb. 2.
Toilet preparation. B. G. Wilkes and H. E. Wassell. 2,309,722; Feb. 2.
Tool: *See*—
Rotary abrading tool.
Tool jar, Hydraulic trip. D. U. Shaffer and E. C. Hamm. 2,309,872; Feb. 2.
Toxic material, Producing. J. E. Harvey, Jr. 2,310,194; Feb. 2.
Toy. A. G. Hadjepetres. 2,310,075; Feb. 2.
Trailer hitch. B. F. Klawitter. 2,309,850; Feb. 2.
Train, Automotive. R. W. Harriun and M. K. Pribil. 2,309,766; Feb. 2.
Transformer gin. D. C. Hubbard. 2,309,769; Feb. 2.
Transmission and control system therefor, Automatic. H. E. Carnagua, and W. B. Osborne. 2,309,826; Feb. 2.
Transmission shift mechanism. O. E. Fishburn. 2,309,837; Feb. 2.
Transmitter, Emergency. H. B. Canon and J. L. Swallow. 2,310,017; Feb. 2.
Transmitting apparatus for railway train communicating systems. P. N. Bossart. 2,309,747; Feb. 2.
Transverse expansion and contraction joint. F. O. Heltzer. 2,309,767; Feb. 2.
Treadle roll for looms. J. T. Ruist. 2,309,985; Feb. 2.
Tree, Artificial. J. H. Peroni. 2,309,977; Feb. 2.
Tricycle. J. A. Conti. 2,310,064; Feb. 2.
Trimming mechanism. W. F. Zalewski and W. E. Woodcock. 2,309,726; Feb. 2.
Truck, Dump. R. A. Quintin and E. W. Graham. 2,309,787; Feb. 2.
Tube: *See*—
Velocity modulated electrical discharge tube.
Tubular bodies, Flanging. H. R. Austin. 2,310,158; Feb. 2.
Tuning mechanism for radio receiving sets. A. S. Wells. 2,310,003; Feb. 2.
Turnstile. H. A. Gersbach. 2,309,893; Feb. 2.
Turret control. W. R. Tucker. 2,309,998; Feb. 2.
2-aminopyrimidines. R. O. Roblin, Jr., and J. P. English. 2,309,739; Feb. 2.
Two-cycle, supercharged, compound, Diesel engine. F. Marburg. 2,309,968; Feb. 2.
Undergarment. H. Blau. 2,309,822; Feb. 2.
Universal joint. A. Y. Dodge. 2,309,939; Feb. 2.
Universal radius truing fixture for grinding machines. R. E. Root. 2,309,924; Feb. 2.
Vacuum tube seal and method. C. V. Litton. 2,309,967; Feb. 2.
Valve: *See*—
Differential pressure loaded control valve. Faucet valve.
Manual reset valve.
Valve cooling means. F. B. Yingling. 2,310,144; Feb. 2.
Valve system. C. Thumim, E. J. Frank, and A. C. Boisseau. 2,310,130; Feb. 2.
Variable resistance. E. R. Stoekle. 2,309,798; Feb. 2.
Vehicle: *See*—
Amphibious armored vehicle.
Vehicle construction. A. L. Koch and J. B. Covi. 2,309,735; Feb. 2.
Vehicle fender, Reinforced. E. F. Hansen. 2,309,898; Feb. 2.
Vehicle suspension. C. C. Utz. 2,309,811–12; Feb. 2.
Velocity modulated electrical discharge tube. C. V. Litton. 2,309,966; Feb. 2.
Vending machine. B. W. Fry. 2,310,072; Feb. 2.
Vending machine. M. E. Schloff. 2,309,674; Feb. 2.
Vending machine magazine. F. D. Vogel. 2,309,802; Feb. 2.
Ventilator. H. M. Kistler. 2,309,774; Feb. 2.
Ventilator. A. G. Siebenlist. 2,309,717; Feb. 2.
Vestibule passageway for railway vehicles. A. G. Hoppe. 2,310,088; Feb. 2.
Vessels, Filling. A. B. Mojonnier and M. Miller. 2,309,859; Feb. 2.
Vibration motor. R. M. Miller. 2,310,107; Feb. 2.
Vibration translating system. W. J. Albersheim. 2,310,048; Feb. 2.
Vibratory machine. E. Ahlskog. 2,309,689; Feb. 2.
Viner. W. de Back. 2,309,630; Feb. 2.
Viscosimeter. H. Kott. 2,309,910; Feb. 2.
Vise, Universal. J. B. Giern and A. P. Anholtt. 2,310,025; Feb. 2.

Vitamin B_6 intermediate. G. H. Carlson. 2,310,168–72; Feb. 2.
Vitamin B_6, Synthesizing. G. H. Carlson. 2,310,167; Feb. 2.
Water closet or toilet, Ventilated. J. G. Schotthoefer. 2,309,925; Feb. 2.
Weaving. R. E. Burdett. 2,309,825; Feb. 2.
Welding alloy. W. C. McLott. 2,310,104; Feb. 2.
Welding apparatus. G. D. Agnew. 2,310,015; Feb. 2.
Well cleaning. N. E. Gunderson. 2,309,697; Feb. 2.
Well logging apparatus and method thereof. R. E. Fearon. 2,309,835; Feb. 2.
Well swab. G. A. Rayner. 2,309,922; Feb. 2.
Wells, Method and apparatus for cementing. C. S. Sanders. 2,309,791; Feb. 2.
Wheel feed, Pin. A. W. Metzner. 2,309,656; Feb. 2.
Winding for single-phase series motors. K. Töfflinger. 2,310,131; Feb. 2.
Wings of airplanes, Heating. G. Van Daam. 2,309,682; Feb. 2.
Wiper blade forming machine and process. E. C. Horton. 2,310,177; Feb. 2.
Wire, Processing. T. G. Bergin. 2,309,745; Feb. 2.

CLASSIFICATION OF PATENTS

ISSUED FEBRUARY 2, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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